Catalogue of Salmon Streams and Spawning Escapements of Statistical Area 9 and 10 (Rivers and Smith Inlets)

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Fisheries and Oceans

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Fisheries and Aquatic Sciences

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CATALOGUE OF SALMON STREAMS AND SPAWNING ESCAPEMENTS OF STATISTICAL AREAS 9 AND 10 (RIVERS INLET AND SMITH INLET)

by

E.W. Britton and D.E. Marshall

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ABSTRACT

Britton, E.W. and D.E. Marshall. 1980. Catalogue of salmon streams and spawning escapements of statistical areas 9 and 10, (Rivers Inlet and Smith Inlet). Can. Data Rep. Aquat. Sci. 222: 164 pp.

Catalogue containing each stream's location, spawning distribution, barriers and points of difficult ascent, escapement records and other general data pertairing to the stream. The catalogue also includes a topographical map of the stream's location and in some cases a sketch which further describes the surrounding area.

Key words: British Columbia, area 9, area 10, salmon streams, spawning escapements.

RÉSUMÉ

Britton, E.W. and D.E. Marshall. 1980. Catalogue of salmon streams and spawning escapements of statistical areas 9 and 10, (Rivers Inlet and Smith Inlet). Can. Data Rep. Aquat. Sci. 222: 164 pp.

Catalogue presentant pour chaque cours d'eau l'emplacement, la distribution des frayeres, les barrieres et les points ou le passage est difficile, les donnees sur la remonte et d'autres renseignments generaux au sujet du cours d'eau. Le catalogue contient une carte topographique de l'emplacement du cours d'eau et, dans certains cas, un croquis qui decrit avec davantage de details la region environnante.

Mots cles: Colombie-Britannique, zone 9, zone 10, cours d'eau a saumon, remontes de reproducteurs.

CONTENTS

Abstract/Résumé iii
Statistical Areas vii
Management Divisions viii
Map References ix
Federal Fisheries Districts x
Standards Used on Stream Data Page xii
Salmon Spawning Streams of Statistical Areas 9 & 10 xiv
Escapement Record for Statistical Area 9 xv
Escapement Record for Statistical Area 10 xvi

STREAM DATA - AREA 9

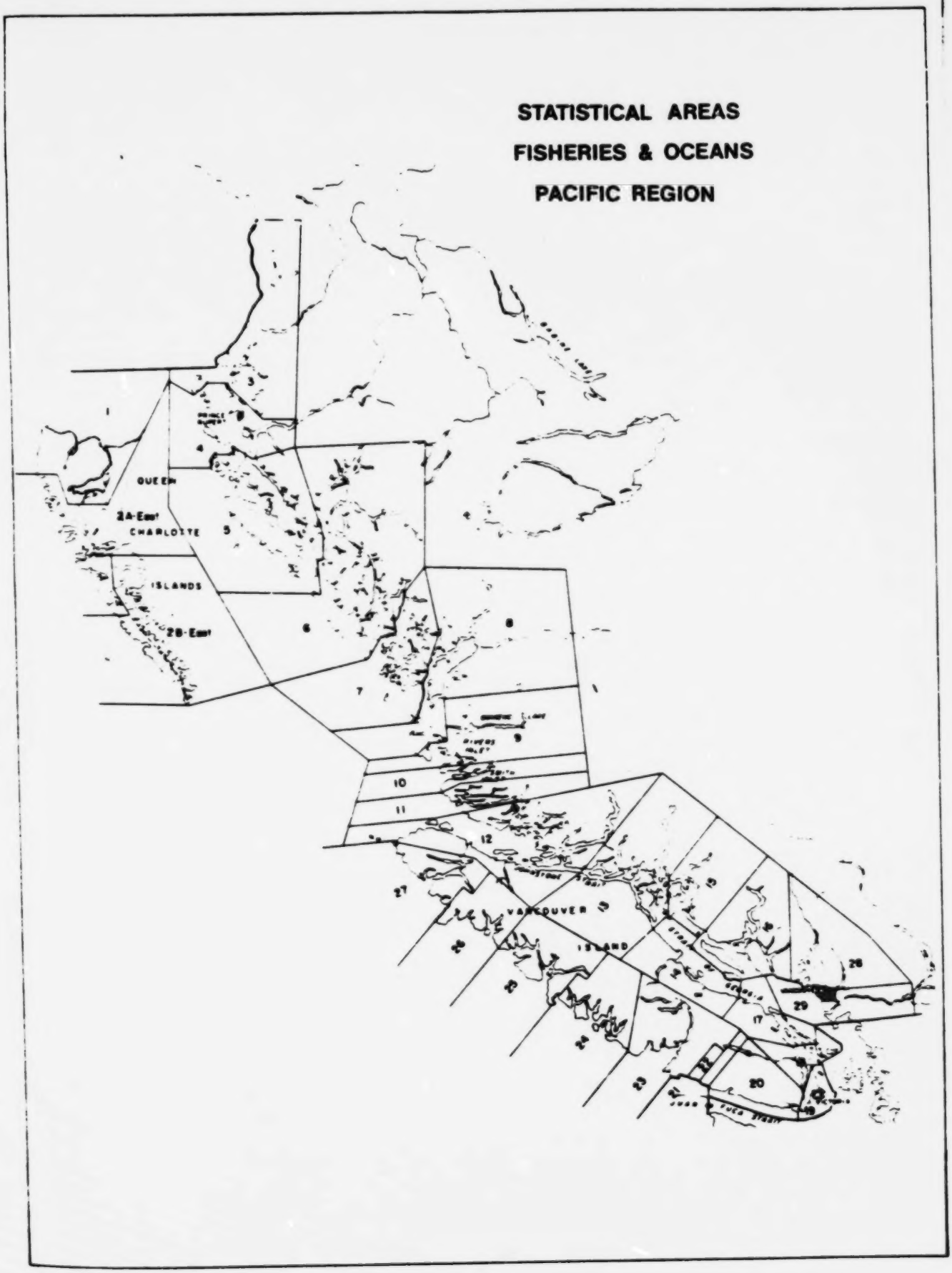
Allard Creek 1
Amback Creek 5
Ashlulm Creek 9
Asklum Creek ..... (see Ashlulm Creek)
Beaver Creek 13
Cheo Flats ..... (see Owikeno Lake)
Cheo River ..... (see Tzeo River)
Chic Chic Creek 17
Chuckwalla River 21
Clyak River 25
Dallery Creek 29
Dallac Creek ..... (see Dallery Creek)
Doris Creek 33
Draney Creek 37
Genesee Creek 41
Goose Bay Creek ..... (see Hogan Creek)
Hagen Creek 45
Hogan Creek 49
Indian River ..... (see Inziana River)
Inziana River 53
Johnston Creek 57
Kilbella River 61
Lockhart Gordon Creek 65
Machmell River 69
MacNair Creek 73
Markwell River ..... (see Machmell River)
Millbrook Cove Creek ..... (see Hagen Creek)
Milton River 77
Neechanz River 81
Newichy Creek 85
Nicknaqueet River 89
North Arm Creek ..... (see Allard Creek)
Nookins River ..... (see Neechanz River)
Oatsoalis Creek 93
Owikeno Lake 97
Quap River ..... (see Amback Creek)
Right-hand Stream ..... (see Draney Creek)
Roberts Arm Creek 101
Sandell River 105
Sawmill Creek ..... (see Nicknaqueet River)
Sheemahant River 109

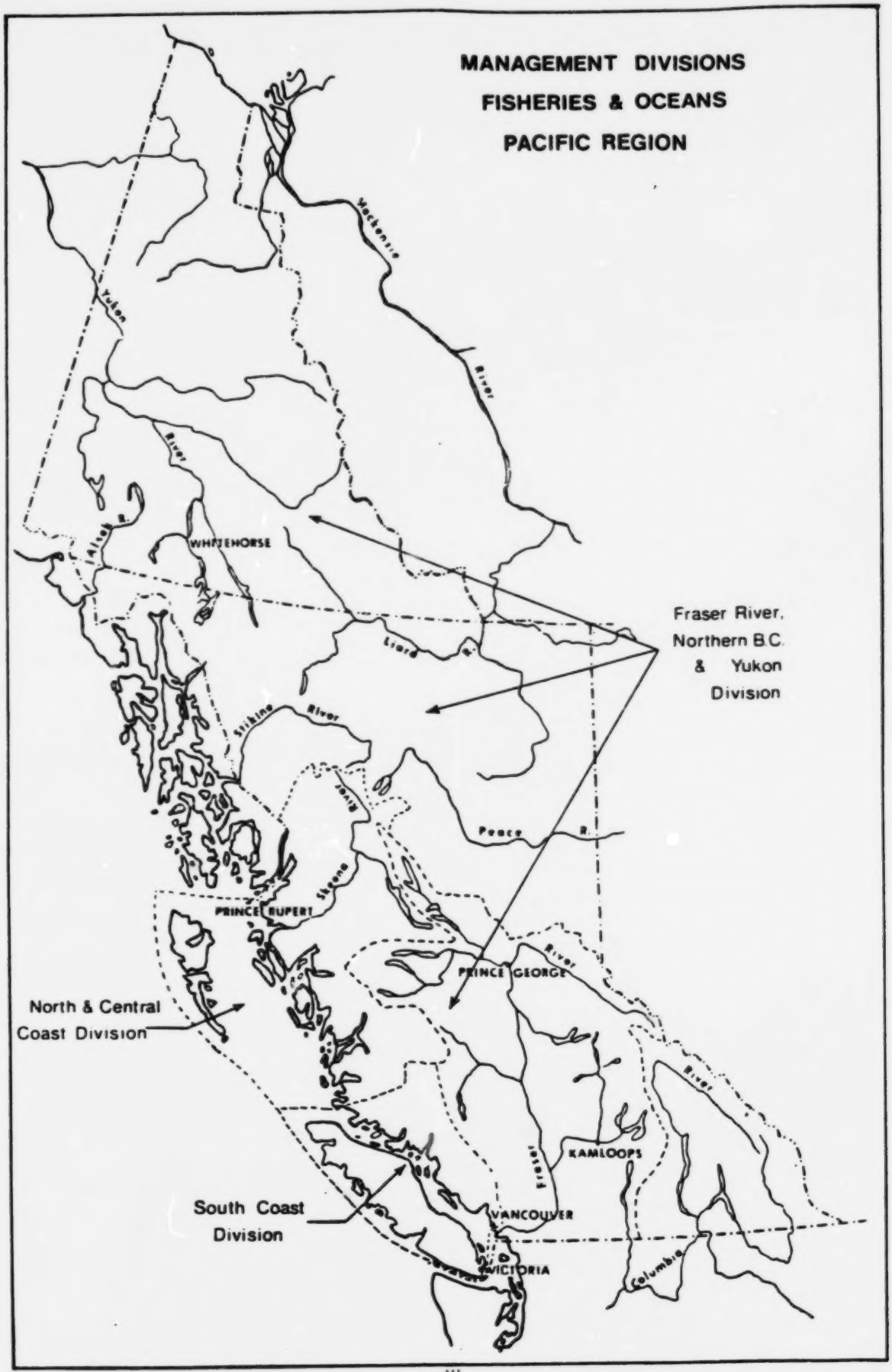
Tzeeiskay Creek ..... (see Sandell River)
Tzeo River 113
Wadhams Creek ..... (see Newichy Creek)
Wannock River 117
Washwash River 121
Waukwash River ..... (see Washwash River)
West Arm Creek ..... (see Roberts Arm Creek)

AREA 10

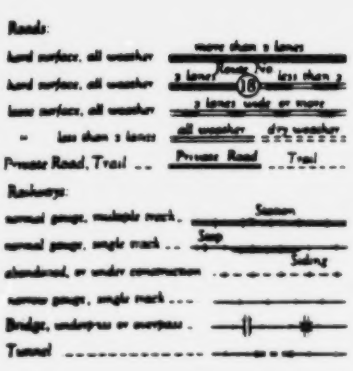
Boswell Creek 127
Canoe Creek 131
Coho Creek ..... (see Boswell Creek)
Delebah River ..... (see Canoe Creek)
Docee River 135
Dsulish Creek 139
Geluck River ..... (see Smokehouse Creek)
Goat Creek ..... (see Docee River)
Margaret Creek 143
Nekite River 147
Smokehouse Creek 151
Takush River 155
Walkum Creek 159

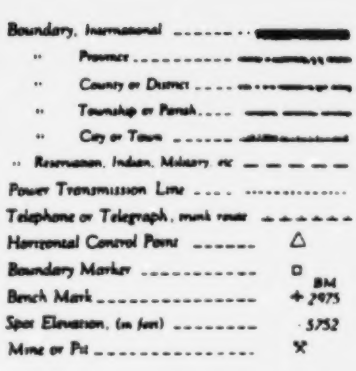
Metric Equivalents 164

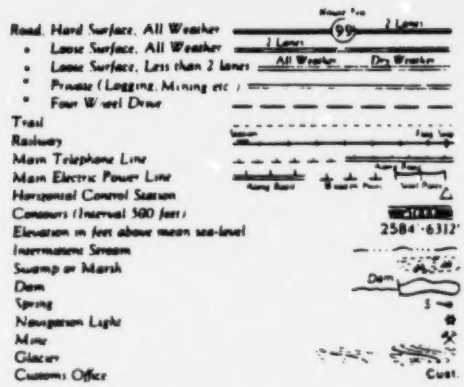

STATISTICAL AREAS
FISHERIES & OCEANS
PACIFIC REGION
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND

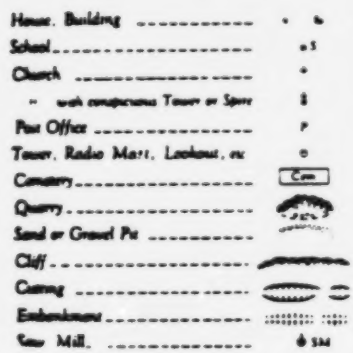

MANAGEMENT DIVISIONS
FISHERIES & OCEANS
PACIFIC REGION
Yukon
Mackenzie
River
River
Yukon R.
WHITEHORSE
Liard R.
Fraser River,
Northern B.C.
& Yukon
Division
Stikine River
Fraser R.
Skeena
PRINCE RUPERT
PRINCE GEORGE
North & Central
Coast Division
Fraser
KAMLOOPS
South Coast
Division
VANCOUVER
VICTORIA
Columbia

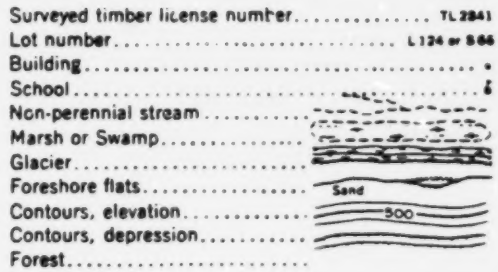
MAP REFERENCES

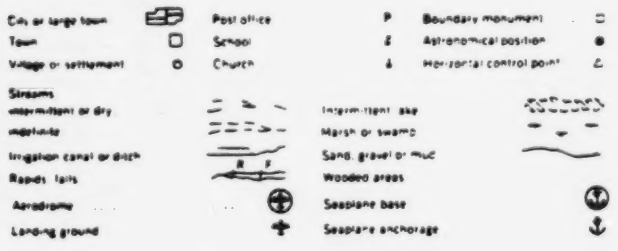


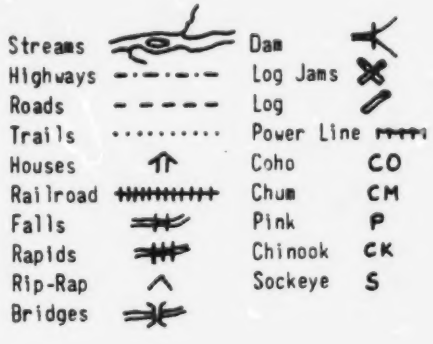


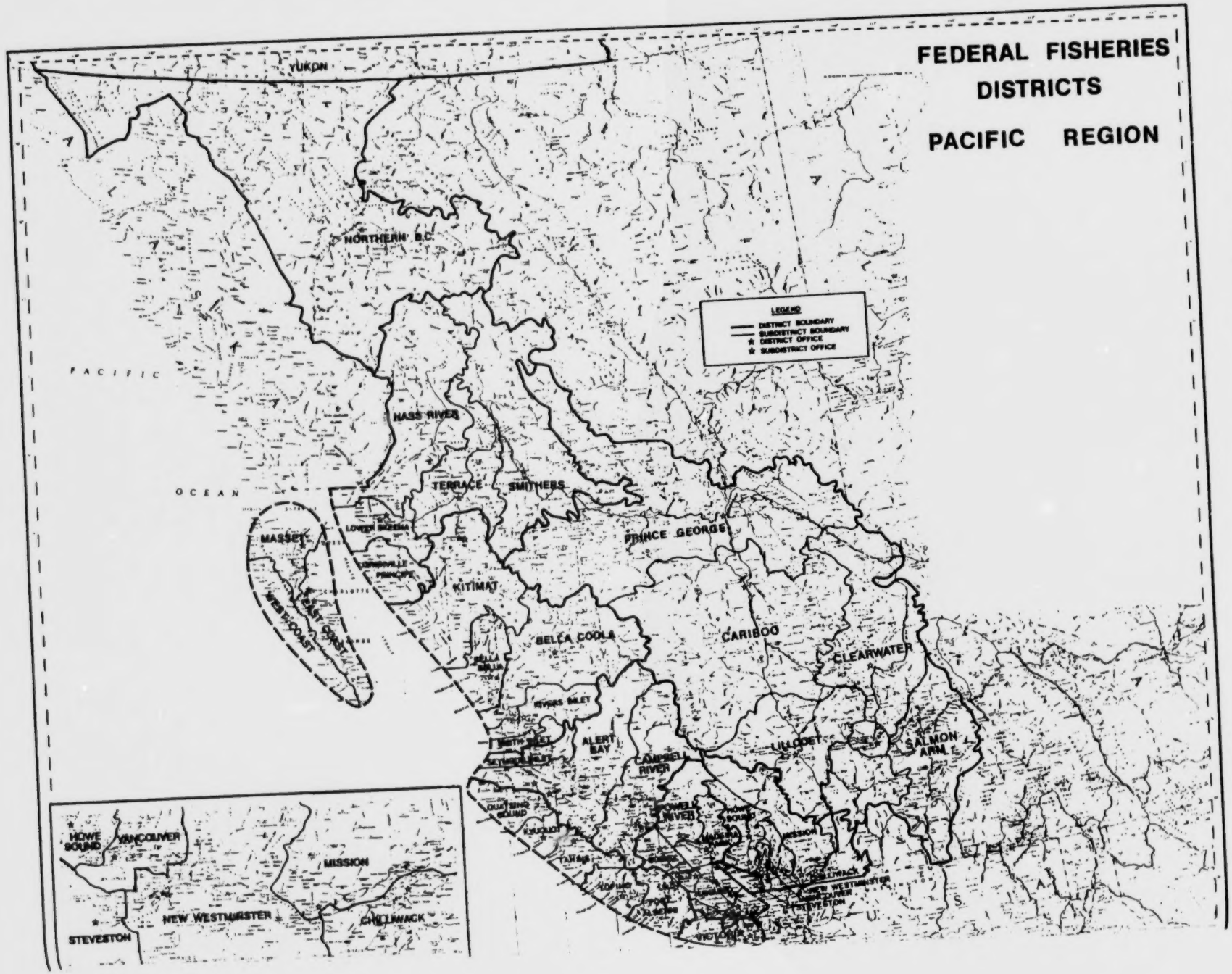











FEDERAL FISHERIES DISTRICTS
PACIFIC REGION
YUKON
NORTHERN B.C.
PACIFIC
OCEAN
HASS RIVER
TERRACE
SMITHERS
PRINCE GEORGE
KITIMAT
MASSET
QUEEN CHARLOTTE
PRINCE RUPERT
WEST COAST
EAST COAST
BELLA COOLA
CARIBOO
CLEARWATER
LILLOOET
SALMON ARM
ALERT BAY
CAMPBELL RIVER
POWELL RIVER
VANCOUVER
MISSION
NEW WESTMINSTER
CHILLIWACK
STEVESTON
VICTORIA
LEGEND
DISTRICT BOUNDARY
SUBDISTRICT BOUNDARY
DISTRICT OFFICE
SUBDISTRICT OFFICE

FEDERAL FISHERIES DISTRICTS

DISTRICT AND SUBDISTRICT OFFICES	ADDRESSES	TELEPHONE NUMBERS
DISTRICT #1 KAMLOOPS	202 Federal Bldg., 317 Seymour St., Kamloops, B.C., V2C 2E9	374-4322
Salmon Arm	Box 1160, Salmon Arm, B.C., V0E 2T0	832-8037
Prince George	Box 267, Postal Stn. A, Prince George, B.C., V2L 4S1	564-7030
Clearwater	P.O. Box 610, P.O. Building, Clearwater, B.C., V0E 1N0	674-9633
Lillooet	Box 315, Lillooet, B.C., V0K 1V0	256-4525
Cariboo	Box 4340, Quesnel, B.C., V2J 3J3	992-2434
DISTRICT #2 NEW WESTMINSTER	309 - 549 Columbia St., New Westminster, B.C., V3L 1B3	545-7181
Surrey	309 - 549 Columbia St., New Westminster, B.C., V3L 1B3	545-7181
Vancouver Waterfront	309 - 549 Columbia St., New Westminster, B.C., V3L 1B3	545-7181
Mission	Box 3308, Mission, B.C., V2V 4J5	826-3664
Chilliwack	Ste. 5, 9 Mary Street, Chilliwack, B.C., V2P 4G9	792-6011
Steveston	1255 No. 1 Road, Richmond, B.C., V7E 1T7	274-7217
Coquitlam	309 - 549 Columbia St., New Westminster, B.C., V3L 1B3	545-7181
Squamish	Box 85, Squamish, B.C., V0N 3G0	892-3230
DISTRICT #3 NANAIMO	204 - 60 Front St., Nanaimo, B.C., V9R 5H7	876-274
Parksville	Box 1120, Parksville, B.C., V0R 2S0	248-6710
Comox	Box 1328, Comox, B.C., V9N 3Z9	339-2031
Duncan	Box 241, Duncan, B.C., V9L 3X3	746-6221
Powell River	4770 Joyce Ave., Powell River, B.C., V8A 3B6	485-9621
Pender Harbour	Box 10, Madeira Park, B.C., V0N 2H0	883-2313
DISTRICT #4 PORT ALBERNI	P.O. Box 280, Federal Bldg., Port Alberni, B.C., V9Y 7M7	724-0195
Tofino	Box 48, Tofino, B.C., V0R 2Z0	725-3468
Tahsis	Box 549, Tahsis, B.C., V0P 1X0	934-6606
Port Hardy	Box 10, Port Hardy, B.C., V0N 1P0	949-6422
DISTRICT #5 CAMPBELL RIVER	215 - 950 Alder St., Campbell River, B.C., V9W 2P8	287-2102
Port Hardy	Box 10, Port Hardy, B.C., V0N 2P0	949-6422
Alert Bay	Box 263, Alert Bay, B.C., V0N 1A0	974-5216
DISTRICT #6 VICTORIA	116 - 816 Government St., Victoria, B.C., V8W 1W9	566-3252
Saanich	116 - 816 Government St., Victoria, B.C., V8W 1W9	566-3252
Sooke	Box 831, Sooke, B.C., V0Z 1N0	642-5322
DISTRICT #7 KITIMAT	312 - 450 Federal Bldg., City Centre, Kitimat, B.C., V8C 1T6	632-6158
Butedale	312 - 450 Federal Bldg., City Centre, Kitimat, B.C., V8C 1T6	632-6158
Bella Bella	Box 38, Bella Bella, B.C., V0T 1B0	957-2312
Bella Coola	Box 130, Bella Coola, B.C., V0T 1C0	799-5345
Rivers Inlet	Dawsons Landing P.O., Rivers Inlet, B.C., V0N 1M0	Radio Ph.
DISTRICT #8 PRINCE RUPERT	109 - 417 Second Ave. West, Prince Rupert, B.C., V8J 1G8	624-9137
Lower Nass	109 - 417 Second Ave. West, Prince Rupert, B.C., V8J 1G8	624-9137
Upper Nass	P.O. Box 29, Nass Camp P.O., B.C., V0N 3J0	633-2408
Skeena	109 - 417 Second Ave. West, Prince Rupert, B.C., V8J 1G8	624-9137
Grenville-Principe	109 - 417 Second Ave. West, Prince Rupert, B.C., V8J 1G8	624-9137
Hazelton	Box 327, Hazelton, B.C., V0J 1Y0	842-6327
Terrace	4721-B Lazelle Ave., Terrace, B.C., V8G 1R6	635-2206
Smithers	Box 578, Smithers, B.C., V0J 2N0	847-2312
DISTRICT #9 QUEEN CHARLOTTE	Box 99, Q.C. City, Queen Charlotte Islands, B.C., V0T 1S0	559-4413
Sandspit	Box 222, Sandspit, B.C., V0T 1T0	637-5340
Masset	Box 99, Masset, B.C., V0T 1M0	626-3316
DISTRICT #10 WHITEHORSE	122 Industrial Road, Whitehorse, Yukon Territories, Y1A 2T9	403-667-2235
Haines Junction	P.O. Box 5341, Haines Junction, Y.T., Y0B 1L0	403-667-2235

STANDARDS USED ON STREAM DATA PAGE

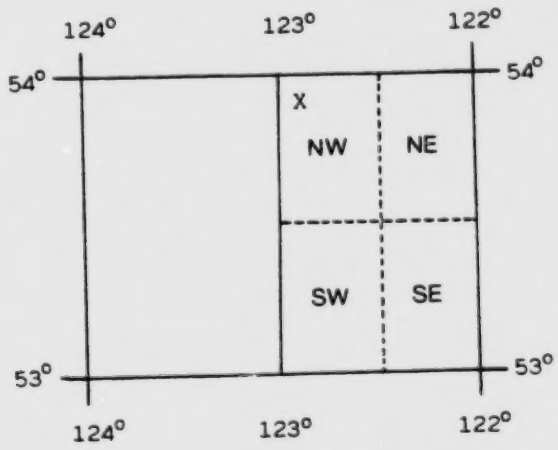
Name of Stream: Name as given in Gazetteer of Canada, British Columbia 1966 edition; local or non-gazetted names are added in lower case type.

Conservation District: As defined by the Conservation and Protection Service (April 1965).

Statistical Area: As defined by Department of the Environment, Fisheries Operations Statistical Map (January 1974).

Location and Position: Defined by quadrant indexing. Each geographical quadrilateral of the earth's surface of 1 degree in extent in latitude and longitude is divided into the SE, SW, NE and NW quarters. The south-east corner of each quadrilateral gives the initial point for the figure of reference (Gazetteer of Canada).

EXAMPLE "X"
53° 122° NW



Length: The portion of the stream accessible to spawning salmon.

Width: Average width, estimated to the nearest metre for the described length.

Drainage: Area in square kilometres of the entire drainage basin feeding the stream.

Composition:

Bedrock	bedrock
Boulder	>256 mm
Coarse	50.9 - 256 mm
Fine	3.37 - 50.8 mm
Sand & Silt	<3.37 mm
Unclassified	where bottom cannot be observed, e.g. log jams, pools, water colour, etc.

Gradient: Expressed as a percentage

Wetted Area: Number of square metres of stream bed under water at average flows within the described length.

Spawning Area: Estimated square metres of stream bed suitable for salmon spawning within the described length.

Discharge: Mean annual discharge. Maximum and minimum values are either daily means or instantaneous discharges. The latter are identified by (Inst.). Discharge data is taken from "Historical Stream Flow Summary", British Columbia, Water Survey of Canada.

Temperature: As described. (°C)

Barriers and Points of Difficult Ascent: Complete and partial barriers to salmon and their distance from the stream mouth. Species likely to be affected may be listed. Both natural and man-made obstructions are defined.

Spawning Distribution: Portion of the stream utilized by each species. Distribution is indicated by brief comments opposite the species.

Potential of Inaccessible Portion of Stream: Indicates whether or not the inaccessible portion of the stream could be utilized by spawning salmon.

General Remarks: Emphasizes features of stream and spawning populations. Also includes industrial activity, routes of accessibility, etc. The comments with dates are taken from "Annual Reports of Salmon Streams & Spawning Grounds" (B.C. 16's). In some cases, references to additional information not included in the General Remarks may be given.

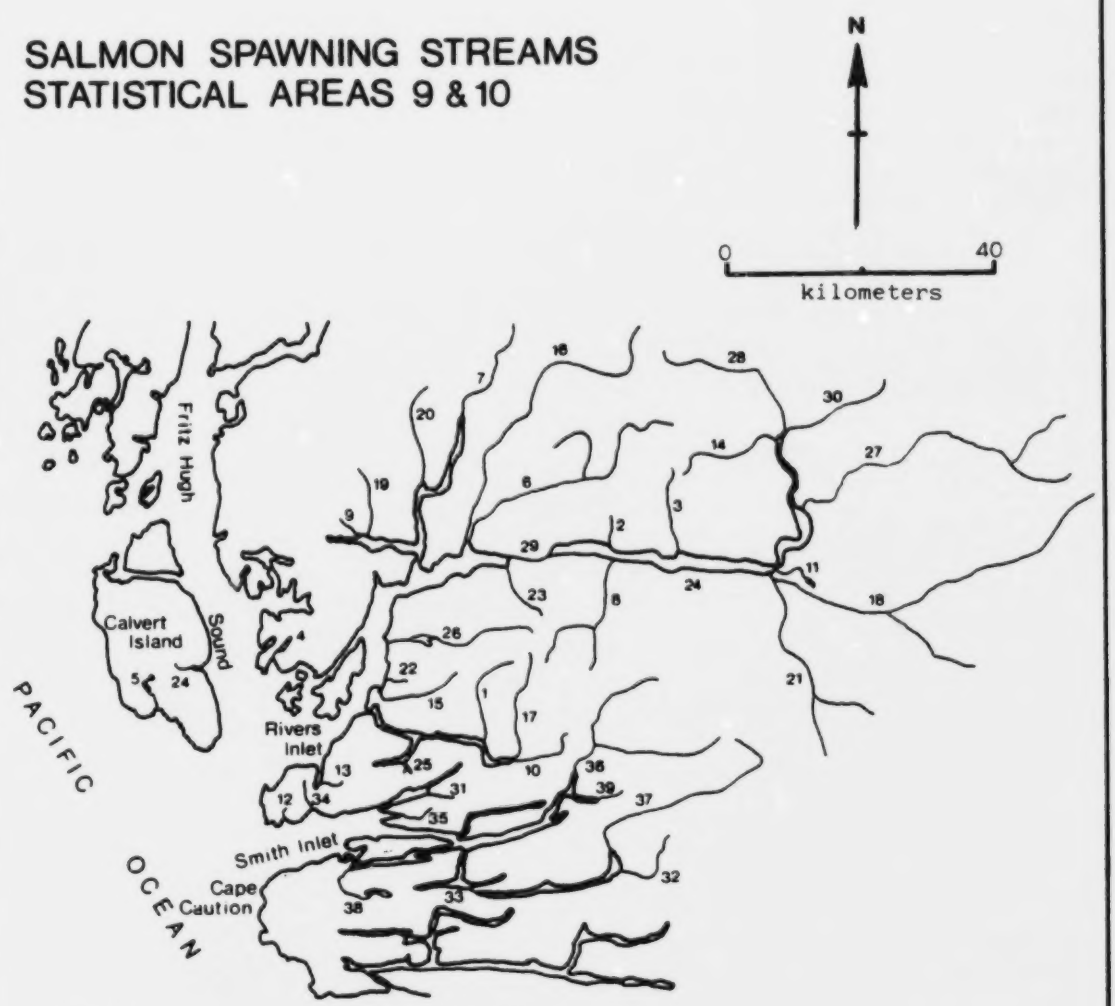
Escapement Records: The escapement represents the mid point of the coded range of escapement for each species. For example: the letter "H" representing 5000-10000 fish would be entered as 7500. Where absolute numbers are provided by Fisheries Personnel, these numbers are entered. N/O means the stream was inspected but no fish were observed; UNK means there was evidence of fish present but no estimates were made; NO RECORDS means no escapement records for the applicable years could be found in the escapement files.

Timing: Dates which salmon arrive in the stream, begin to spawn, reach peak spawning period and finish spawning.

E = early (1st to 10th of the month)
M = mid (11th to 20th of the month)
L = late (21st to end of the month)

NB: Distance references are from the mouth of the stream unless otherwise stated.

SALMON SPAWNING STREAMS
STATISTICAL AREAS 9 & 10



AREA 9

1. Allard Creek
2. Amback Creek
3. Ashlulm Creek
4. Beaver Creek
5. Chic Chic Creek
6. Chuckwalla River
7. Clyak River
8. Dallery Creek
9. Doris Creek
10. Draney Creek
11. Genesee Creek
12. Hagen Creek
13. Hogan Creek
14. Inziana River
15. Johnston Creek
16. Kilbella River
17. Lockhart Gordon Creek
18. Machmell River
19. MacNair Creek
20. Milton River
21. Neechanz River
22. Newichy Creek
23. Nicknaqueet River
24. Oatsoalis Creek
25. Robert Arm Creek
26. Sandell River
27. Sheemahant River
28. Tzeo River
29. Wannock River
30. Washwash River

AREA 10

31. Boswell Creek
32. Canoe Creek
33. Docee River
34. Dsulish Creek
35. Margaret Creek
36. Nekite River
37. Smokehouse Creek
38. Takush River
39. Walkum Creek

ESCAPEMENT RECORD FOR STATISTICAL AREA 9

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
[illegible]	30000	25	3050	15675	25750	
[illegible]	84250	1150	7000	37500	12125	
[illegible]	195500	1700	14050	108400	52225	
[illegible]	456500	1900	10600	55200	47325	
[illegible]	304500	825	10375	49700	116025	
52	582500	1575	17350	27700	44750	
53	432500	1575	8775	69400	44000	
[illegible]	103800	UNK	2500	21929	5950	
[illegible]	130400	1500	4525	3602	9300	
[illegible]	223500	3851	400	24350	52700	
57	212900	1575	500	26250	7600	
[illegible]	261750	1600	7600	75975	24125	
[illegible]	370500	2900	5050	6650	19250	
60	68800	7650	900	16375	5850	
61	161850	1350	14600	17125	22450	
[illegible]	413500	4125	13250	25075	121925	
[illegible]	857500	8125	7100	44575	16775	
64	573900	7900	10600	66075	68850	
[illegible]	140150	5125	7050	925	18875	
[illegible]	200000	2225	3500	42500	118650	
67	435250	1775	950	14925	100	
[illegible]	555000	900	2275	41875	111050	
69	226000	1625	7525	10325	525	
70	102250	3400	6300	38600	144175	
71	215900	1741	6855	11855	34205	
[illegible]	224500	860	6800	27581	502450	
[illegible]	985000	1418	4900	24425	9765	
74	557625	6700	12750	62075	214850	
[illegible]	480002	3280	565	16603	87150	
76	300000	1640	3550	6345	259600	
[illegible]	191600	2225	4680	9790	47600	
[illegible]	383000	2800	5650	61100	109650	
79	290025	2150	5550	18500	49350	
80	313000	2325	6800	23675	135800	
81					--	
82						
83						
84						
85						

TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS

ESCAPEMENT RECORD FOR STATISTICAL AREA 10

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			475	7025	11000	
48	5000	750	825	12500	7900	
49	37500		4850	16500	35000	
50	105000		3000	16500	35000	
51	82500	400	2900	6500	3500	
52	67500	750	6550	14500	35000	
53	70000	3500	775	18500	15025	
54	85000	3000	700	20000	6000	
55	110000	1500	1550	4650	22575	
56	90000	1700	200	14000	35025	
57	22575	3500	675	12500	7500	
58	22575	1500	2025	40000	3500	
59	50075	750	2275	12500	15025	
60	18525	200	750	12500	3500	
61	22525	1500	5225	5750	7500	
62	110075	400	6500	44000	35000	
63	103025	400	2225	15750	7500	
64	50200	400	3675	15400	1500	
65	11000	50	4325	1600	7500	
66	50000	775	475	3925	7500	
67	50000	400	125	15225	3500	
68	135200	200	2075	11075	15025	
69	110200	75	1825	2650	400	
70	50000	200	475	22500	15000	
71	110000	700	1200	25000	4000	
72	51500	800	1600	43250	2525	
73	135000	570	1450	71500	5030	
74	80000	1800	2450	28500	9000	
75	60000	960	1000	7500	1300	
76	47000	1000	75	8500	22100	
77	105000	1050	1200	42500	20100	
78	75000	2100	800	36000	19000	
79	21025	500	1450	3750	30250	
80	28000	1200	1500	57000	2500	
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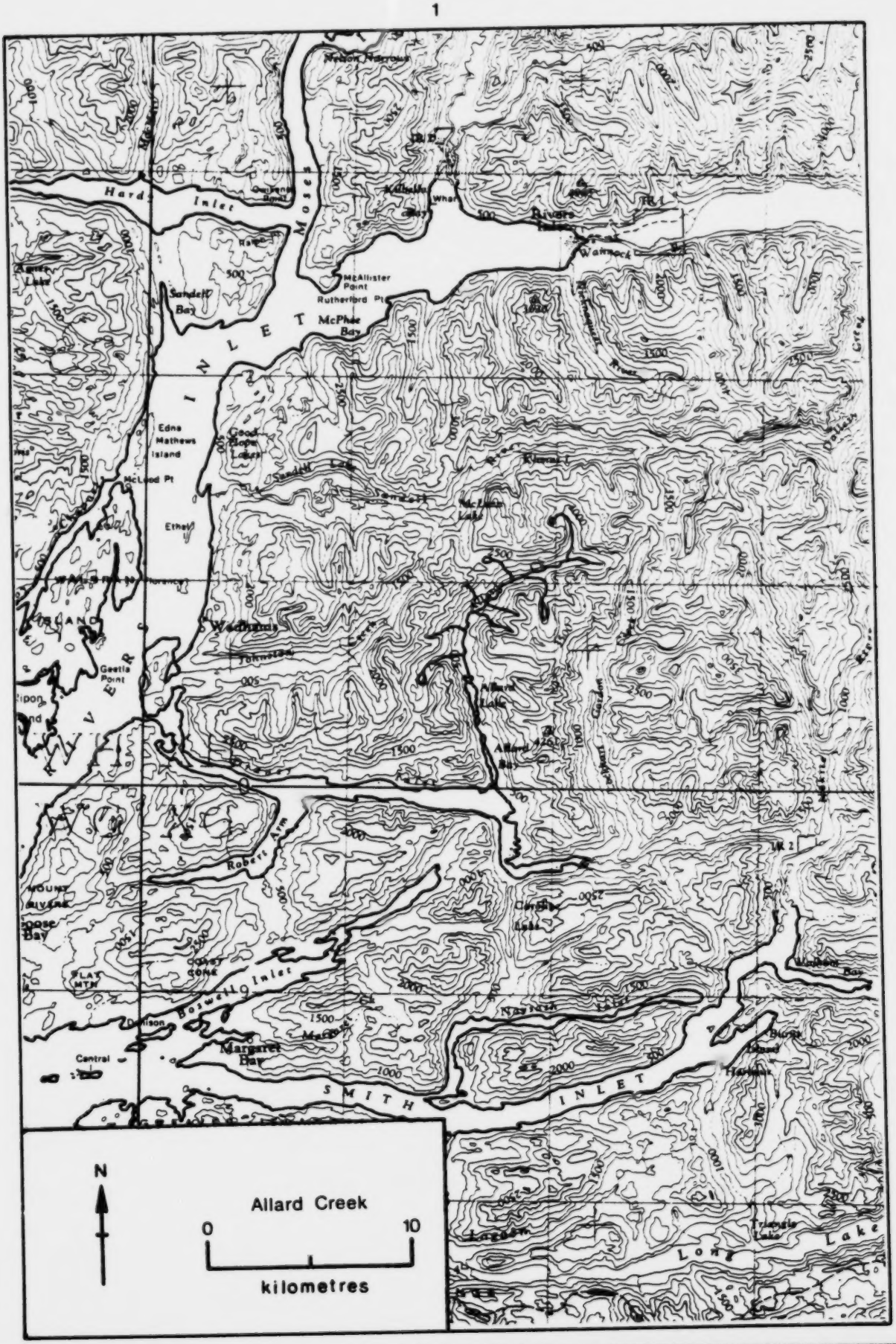
85						
TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS

STREAM DATA

AREA 9


Hard Inlet
Moses
Nelson Narrows
Kalhalla
Rivers Inlet
Wannock
McAllister Point
Rutherford Pt
Sandell Bay
McPhee Bay
INLET
Edna Mathews Island
Good Hope Lakes
McLeod Pt
Ethel
Sandell Lake
Kimsquit River
McLean Lake
Oakalla Creek
Wedlidzilis
Johnston
Geetla Point
Allard Lake
Allard Bay
Robert Arm
Mount Rivers
Goose Bay
Slat Mtn
Dawson
Boswell Inlet
Margaret Bay
Central
Nascall Lake
Warbass Bay
Harbour
SMITH INLET
Lazaboo
Triangle Lake
LONG Lake
N
Allard Creek
0
10
kilometres

NAME OF STREAM ALLARD CREEK (North Arm Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Allard Bay, Draney Inlet, Rge. 2, Coast Dist.

POSITION 51 127 SE

LENGTH 0.3 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Falls at 300 m, passable under ideal conditions.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	mainly below falls
CHUM	to falls
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

Excellent spawning areas present above Allard Lake.

GENERAL REMARKS

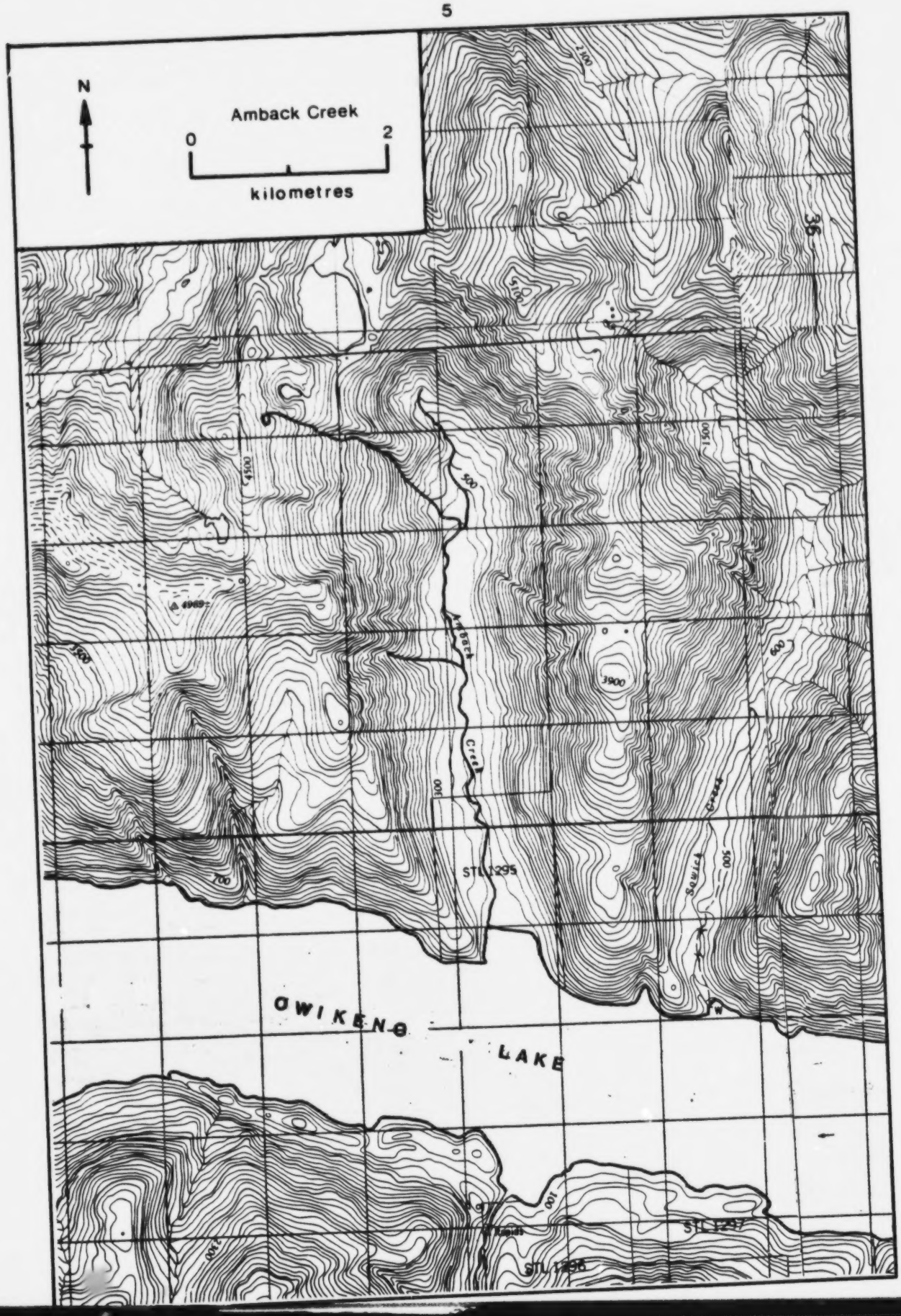
- 1968. Abnormally high flows during spawning period, prolonged low winter flows.
- 1971. Rocky streambed with limited spawning area.
- 1975. Flood conditions in early November.

ESCAPEMENT RECORD FOR ALLARD CREEK (North Arm Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			475	5000		
48			200	750		
49			200	400		
50			75	200		
51			75	200		
52			200	1500		
53			25	200		
54			100	300		
55				75		
56			N/O	N/O		
57			75	750		
58			75	400		
59				75		
60				N/O		
61				N/O		
62			400	750		
63			750	1500		
64			400	750		
65			N/O	N/O		
66			N/O	N/O		
67			N/O	N/O		
68			75	750		
69			N/O	75		
70			75	25		
71			N/O	N/O		
72			UNK	25	N/O	
73			N/O	25	N/O	
74			N/O	75	N/O	
75			20	N/O	N/O	
76			N/O	50	200	
77				700	50	
78			N/O	150	N/O	
79			N/O	500	50	
80			400	1500	300	
81						
82						
83						
84						
85						
TIMING						
ARRIVE			OCT	SEPT	SEPT	
START			OCT	SEPT	SEPT	
PEAK			NOV	OCT	SEPT	
END			DEC	NOV	OCT	

REMARKS

Steelhead are present in this creek.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Amback Creek
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NAME OF STREAM AMBACK CREEK (Quap River)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Owikeno L., Rge. 2, Coast Dist.

POSITION 51 127 NE

LENGTH 8.0 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	to 8.0 km
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 8.0 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

- 1962. Over spawning evident with 75,000 spawners.
The creek flows through a steep, well forested canyon.

ESCAPEMENT RECORD FOR AMBACK CREEK (Quap Creek)

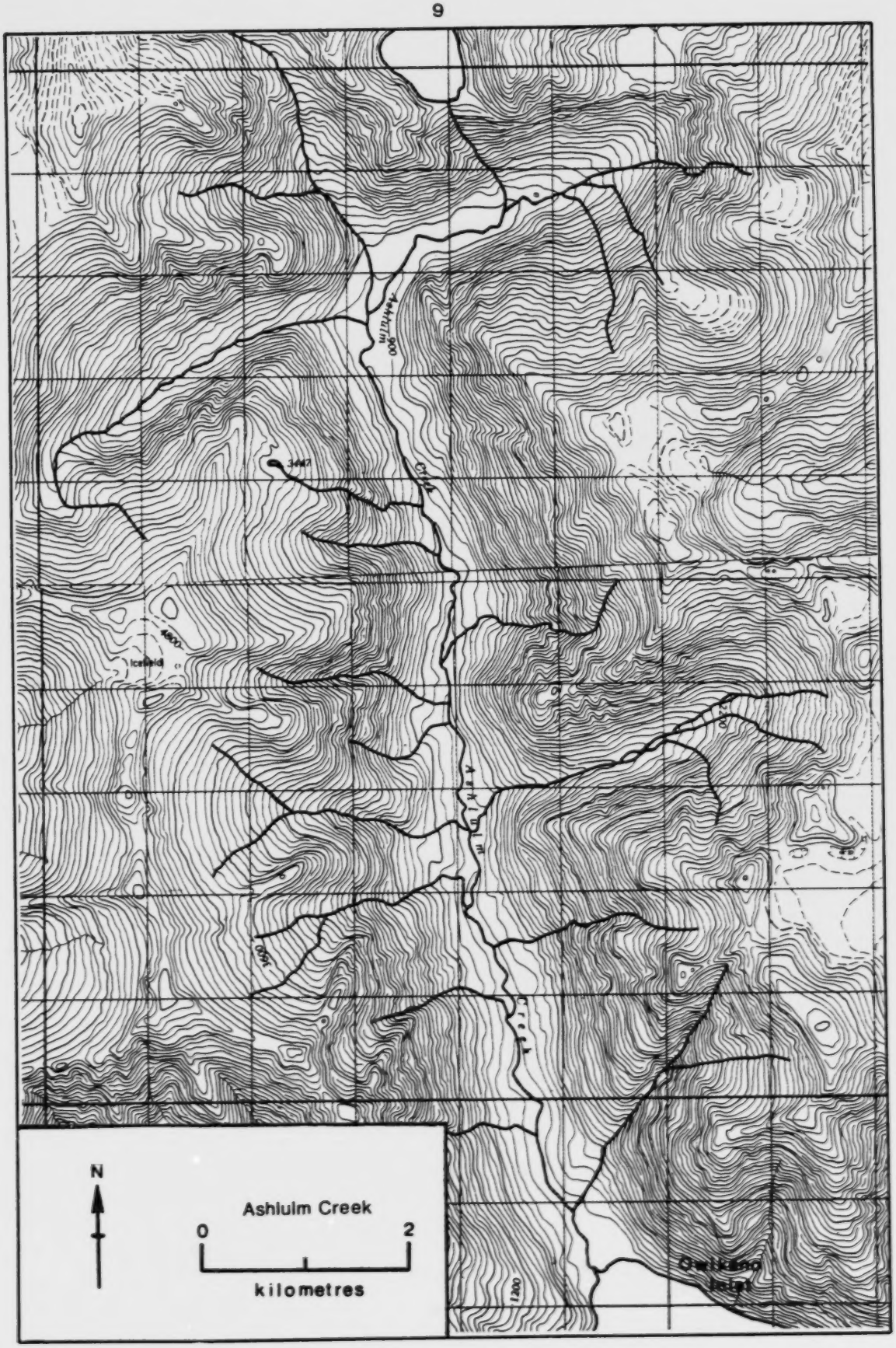
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48	3500					
49	75000					
50	76000		UNK			
51	37500					
52	75000				400	
53	35000					
54	7500					
55	7500					
56	15000					
57	35000					
58	35000					
59	65000					
60	15000					
61	15000		UNK		UNK	
62	75000					
63	75000		25	25	75	
64	75000		UNK	N/O	N/O	
65	3500				25	
66	15000		75		75	
67	3500				25	
68	35000		N/O		25	
69	15000		200		N/O	
70	15000		25		200	
71	55000		150		15	
72	37500		UNK		1000	
73	62500		75		UNK	
74	100000		3500	UNK	7500	
75	55000		N/O	N/O	N/O	
76	65000		N/O	N/O	2000	
77	32500		N/O		50	
78	25000				1500	
79	45000		100	25	N/O	
80	75000	50		400	2500	
81						
82						
83						
84						
85						

TIMING

ARRIVE	SEPT		SEPT	SEPT	AUG	
START	M. SEPT		OCT	OCT	L. AUG	
PEAK	M. OCT		NOV	L. OCT	E. SEPT	
END	E. NOV		DEC	NOV	L. SEPT	

REMARKS

Steelhead are present in this creek.
1964. Quap Lakeshore escapement was 35000 sockeye.
1966. Quap Lakeshore escapement was 1500 sockeye.
1967. Quap Lakeshore escapement was 750 sockeye.


N
Ashluim Creek
0
2
kilometres
Owikeno
Inlet
Ashluim Creek
Icefield
3447
4600
1200

NAME OF STREAM ASHLULM CREEK (Asklum Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Owikeno L., Rge. 2, Coast Dist.

POSITION 51 126 NW

LENGTH 5.5 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Difficult passage over rapids at 5 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	to rapids, light spawning above rapids
CHINOOK	to rapids, light spawning above rapids
COHO	to rapids, light spawning above rapids
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to rapids
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

-1962. Flooding in late September and mid-November.
-1968. Trail to 5 km on left bank.
-1970. 15% bank erosion; deposition of material at creek mouth. Low water levels throughout the spawning season.
-1971. Channel scouring has deteriorated spawning grounds.
-1975. Flooding in early November lead to a major loss of spawn.

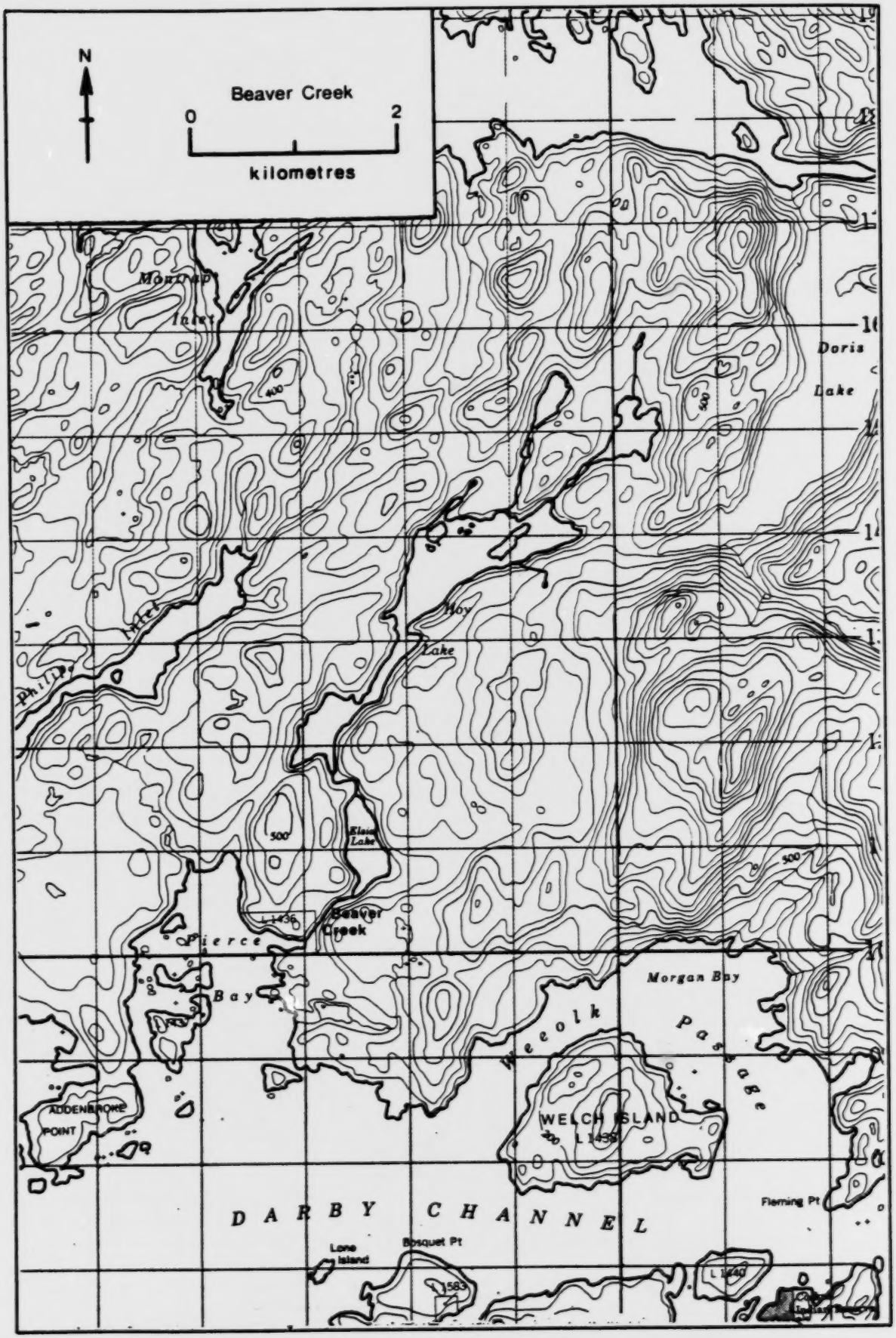
ESCAPEMENT RECORD FOR ASHLULM CREEK (Asklum Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			NO RECORD			
48	3500					
49			NO RECORD			
50	9000				750	
51	25000				75	
52	40000					
53	15000					
54	300					
55	3500					
56	15000					
57	15000					
58	35000					
59	3500				75	
60	400					
61	3500	UNK	UNK	UNK	UNK	
62	3500	UNK			UNK	
63	20000	N/O			UNK	
64	3500	N/O	N/O	N/O	N/O	
65	75	N/O	N/O	N/O	N/O	
66	1500	UNK	N/O	N/O	N/O	
67	750	N/O	N/O		N/O	
68	35000		UNK			
69	750		N/O			
70	750		25		25	
71	1300	10	N/O		25	
72	1500	N/O	N/O	5	75	
73	27500	25	25		N/O	
74	9000	N/O	75		1500	
75	4500	N/O	N/O		300	
76	4000		N/O		200	
77	3000	20	N/O	50	400	
78	22500			50		
79	8000	N/O	N/O	50		
80	5000	25		50	800	
81						
82						
83						
84						
85						

TIMING

ARRIVE	AUG	AUG	SEPT	AUG	AUG	
START	E. SEPT	AUG	SEPT	SEPT	E. SEPT	
PEAK	L. SEPT	SEPT	L. OCT	SEPT	M. SEPT	
END	M. OCT	OCT	DEC	SEPT	E. OCT	

REMARKS


N
Beaver Creek
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kilometres
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Lake
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Creek
Morgan Bay
Bay
ADDENBROKE
POINT
WELCH ISLAND
DARBY CHANNEL
Fleming Pt
Bosquet Pt
Lone
Island
500
400

NAME OF STREAM (Beaver Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Pierce Bay, Rge. 2, Coast Dist.

POSITION 51 127 NW

LENGTH 1.5 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (^oC) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	mainly above Elsie Lake
CHINOOK	
COHO	to Elsie Lake, some years to Hoy Lake
CHUM	to Elsie Lake
PINK (ODD YEAR)	to Elsie Lake
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

-1965. Low water levels seriously restricted passage of spawners.

ESCAPEMENT RECORD FOR _____ (Beaver Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			600			
48			400			
49			400			
50			400	750		
51			400	750		
52			400	200		
53			200	400		
54			300	27		
55			200			
56			75			
57			N/0	N/0		
58			3500	N/0		
59			400	N/0		
60			200	200		
61	750		3500	75		
62			3500	200		
63	3500		750	N/0		
64	400		1500	200		
65	75		75			
66			750			
67	N/0		25	N/0		
68	N/0		N/0	N/0		
69	N/0		400	N/0		
70	N/0		25			
71	N/0		75			
72	N/0		200	400	25	
73	N/0		200	200	N/0	
74	25		UNK	N/0	200	
75	N/0		UNK	N/0	300	
76			150	200	100	
77			100	800	N/0	
78	UNK		200	2000	300	
79	UNK		3000	250	750	
80			600	2000	200	
81						
82						
83						
84						
85						

TIMING						
ARRIVE			SEPT	L. SEPT	AUG	
START			OCT	OCT	AUG	
PEAK			L. OCT	OCT	L. AUG	
END			L. NOV	NOV	SEPT	

REMARKS _____

Chic Chic Creek
N
0
2
kilometres
CALVERT ISLAND
Chic Chic Creek
Chic Chic Bay
Chic Chic Lake
Jennie Islet
Herbert
Safety Cove

NAME OF STREAM (Chic Chic Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Chic Chic Bay, Rge 2, Coast Dist.

POSITION 51 128 SE

LENGTH _____ km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (^oC) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

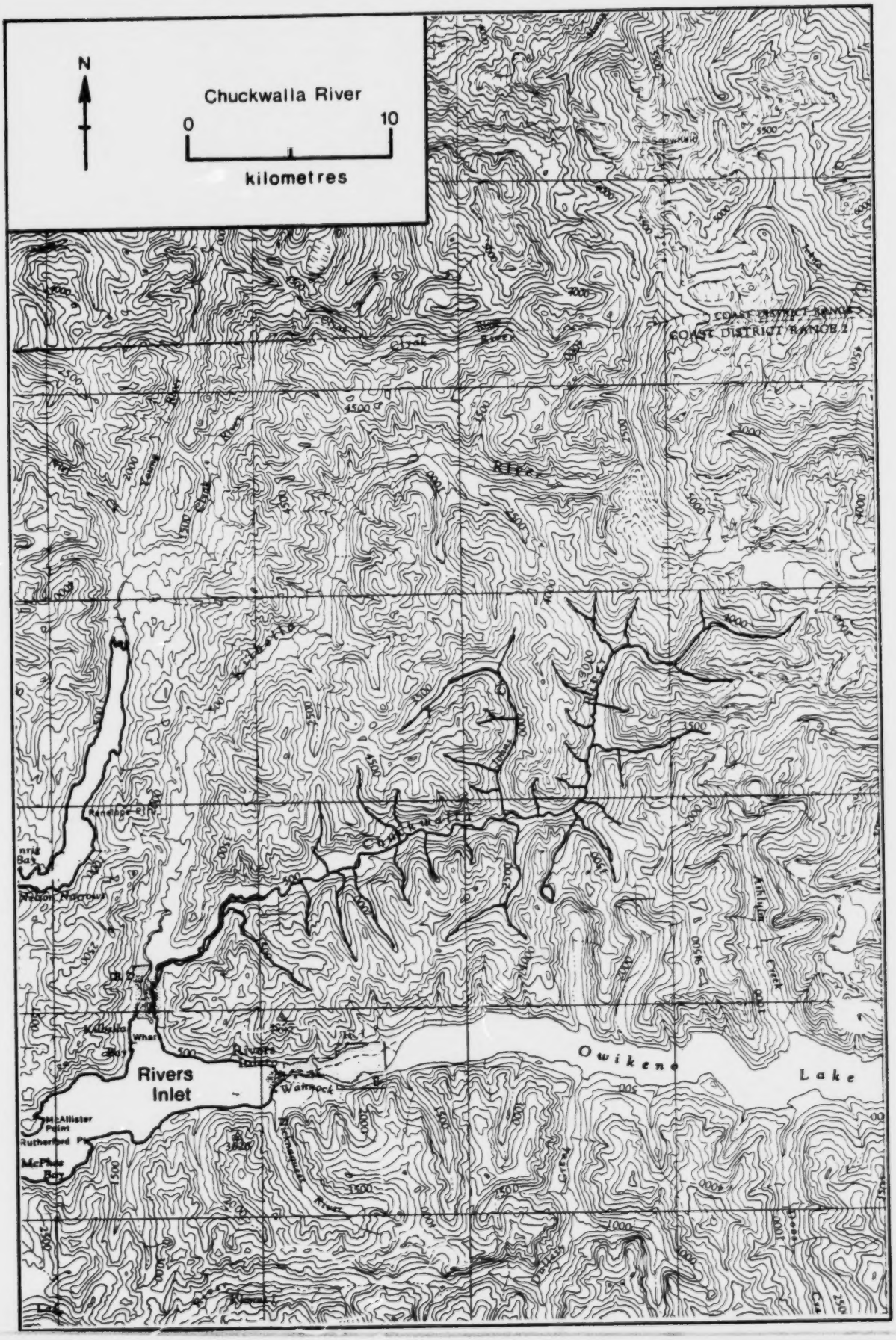
ESCAPEMENT RECORD FOR _____ (Chic Chic Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75	N/O		30			
76						
77						
78	N/O		UNK	UNK	UNK	
79						
80						
81						
82						
83						
84						
85						

TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS

1972. Enumeration difficult due to opaque water.


N
Chuckwalla River
0
10
kilometres
COAST DISTRICT RANGE 2
Rivers Inlet
Owikeno Lake

NAME OF STREAM CHUCKWALLA RIVER

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into Kilbella Bay. Rge 2, Coast Dist.

POSITION 51 127 NE

LENGTH 30 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT
Cascades at 16 km passable to coho.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	1.5 to 8.0 km
COHO	1.5 to 13.0 km
CHUM	1.5 to 13.0 km
PINK (ODD YEAR)	1.5 to 10.0 km
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM
Limited spawning grounds are present above the cascades.

GENERAL REMARKS
- 1956. Channel is unstable with a streambed of compacted gravel and fines to 1.5 km. This section is unsuitable for spawning.
1959. Channel changed course from 1.5 km. 500 spawning pink salmon were stranded in the dried channel.
- 1961. Logging commenced in the watershed.
- 1962-71. Extensive erosion in lower 1.5 km.
- 1978. November flooding scoured some of the spawning grounds.
Tributaries: House Creek - channel is braided at Kilbella River confluence. During dry periods only seepage flow is present. Logging road construction, particularly at bridge crossings, has damaged spawning and rearing areas.

GENERAL REMARDS (CONT.)

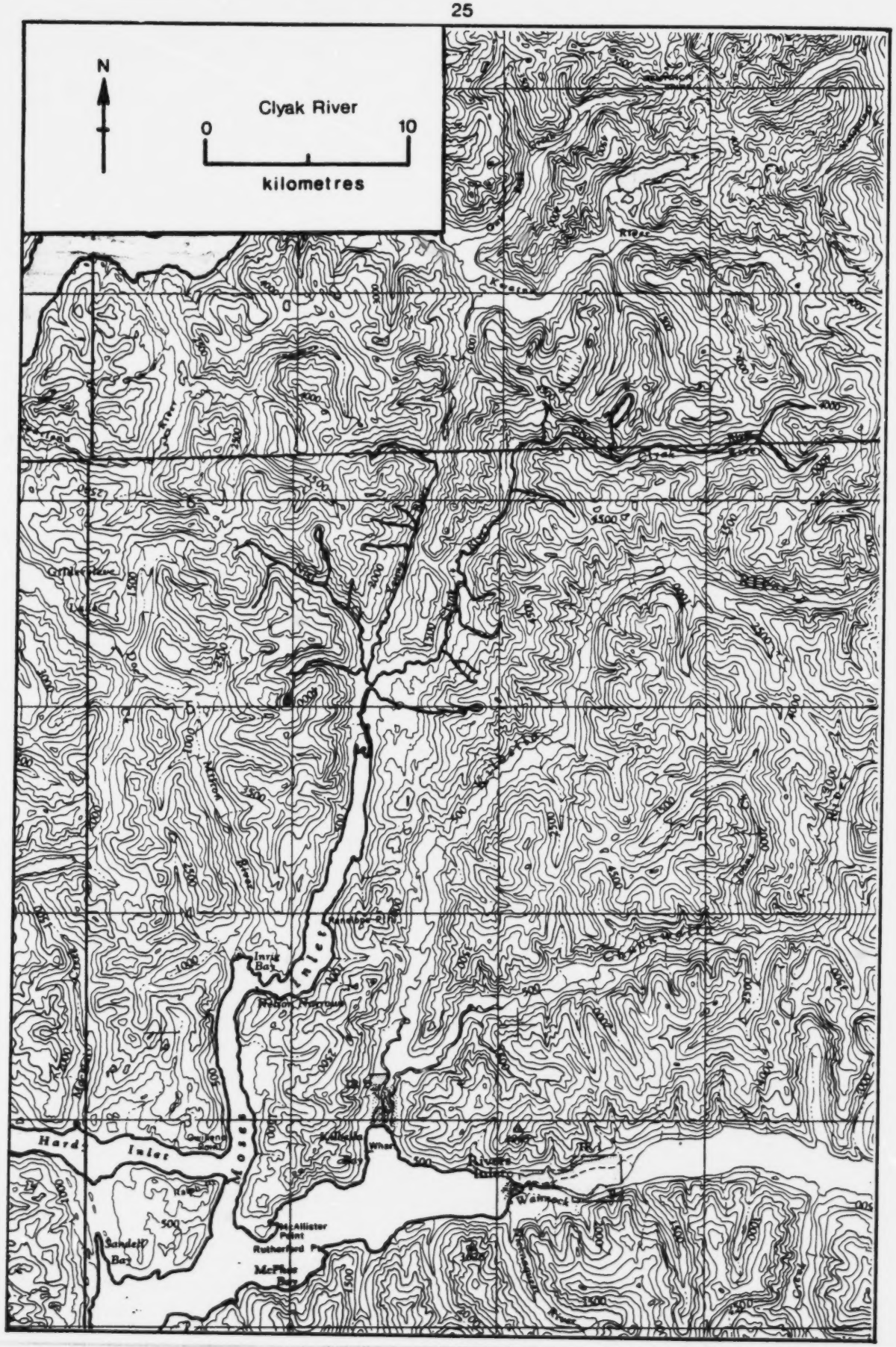
Dave's Creek - braided stream to small cascades at 50 m.
John's Creek - cascades at 1 km are impassable at low water.
Harry's Creek - rearing for trout and coho.
- dry during periods of low flow except for intragravel seepage. (Letter, B. Allen, Technician, Central Coast Division to D.C. Schutz, Senior Biologist, Central Coast Division, 3 Nov. 1975. File No. 5900-85-C225

ESCAPEMENT RECORD FOR CHUCKWALLA RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			200	200	1500	
48			1500	7500	750	
49			75	UNK	400	
50			750	3500	1500	
51		UNK	1500	1500	35000	
52		UNK	3500	3500	1500	
53		UNK	400	1500	15000	UNK
54		UNK	UNK	3000	UNK	UNK
55		UNK	200	200	1500	
56		75	UNK	1500	7500	UNK
57		UNK	200	N/O	3500	
58		N/O	400	15000	3500	UNK
59		75	750	3500	15000	
60		75	200	1500	750	
61		200	750	1500	15000	
62		200	1500	1500	15000	
63		200	750	1500	7500	
64		200	1500	3500	7500	
65		750	1500	200	15000	
66		400	400	200	35000	
67		25	N/O	25	N/O	
68		25	UNK	25	7500	1500
69		25	200	200	25	
70		200	400	750	15000	UNK
71		150	2000	N/O	5000	
72		50	2250	750	75000	UNK
73		80	800	800	5000	UNK
74		200	1500	750	90000	
75		50	75	200	15000	
76		50	150	70	80000	
77		400	600	400	3000	
78		300	300	500	25000	
79		50	100	2000	12000	
80		N/O	300	2000	25000	
81						
82						
83						
84						
85						

TIMING						
ARRIVE		L. JULY	AUG	M. AUG	AUG	
START		M. AUG	L. AUG	AUG	AUG	
PEAK		E. SEPT	OCT	L. SEPT	L. AUG	
END		OCT	DEC	NOV	SEPT	

REMARKS


N
Clyak River
0
10
kilometres
Clyak
Intrid Bay
Nelson Anchorage
Hard Inlet
Moser
McAllister Point
Rutherford Pt
McPhee Bay
Sandelle Bay
Waimack
Rivers Inlet

NAME OF STREAM CLYAK RIVER

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Moses Inlet, Rge 2, Coast Dist.

POSITION 51 127 NE

LENGTH 3.0 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Impassable falls at 3.0 km on Clyak River. Young and Neil Creeks are accessible beyond 3.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	in mainstem to falls
COHO	mainly in Neil Creek and Young River
CHUM	in mainstem to falls
PINK (ODD YEAR)	
PINK (EVEN YEAR)	mainly in Neil Creek and Young River
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

Excellent spawning grounds above falls to 13.0 km.

GENERAL REMARKS

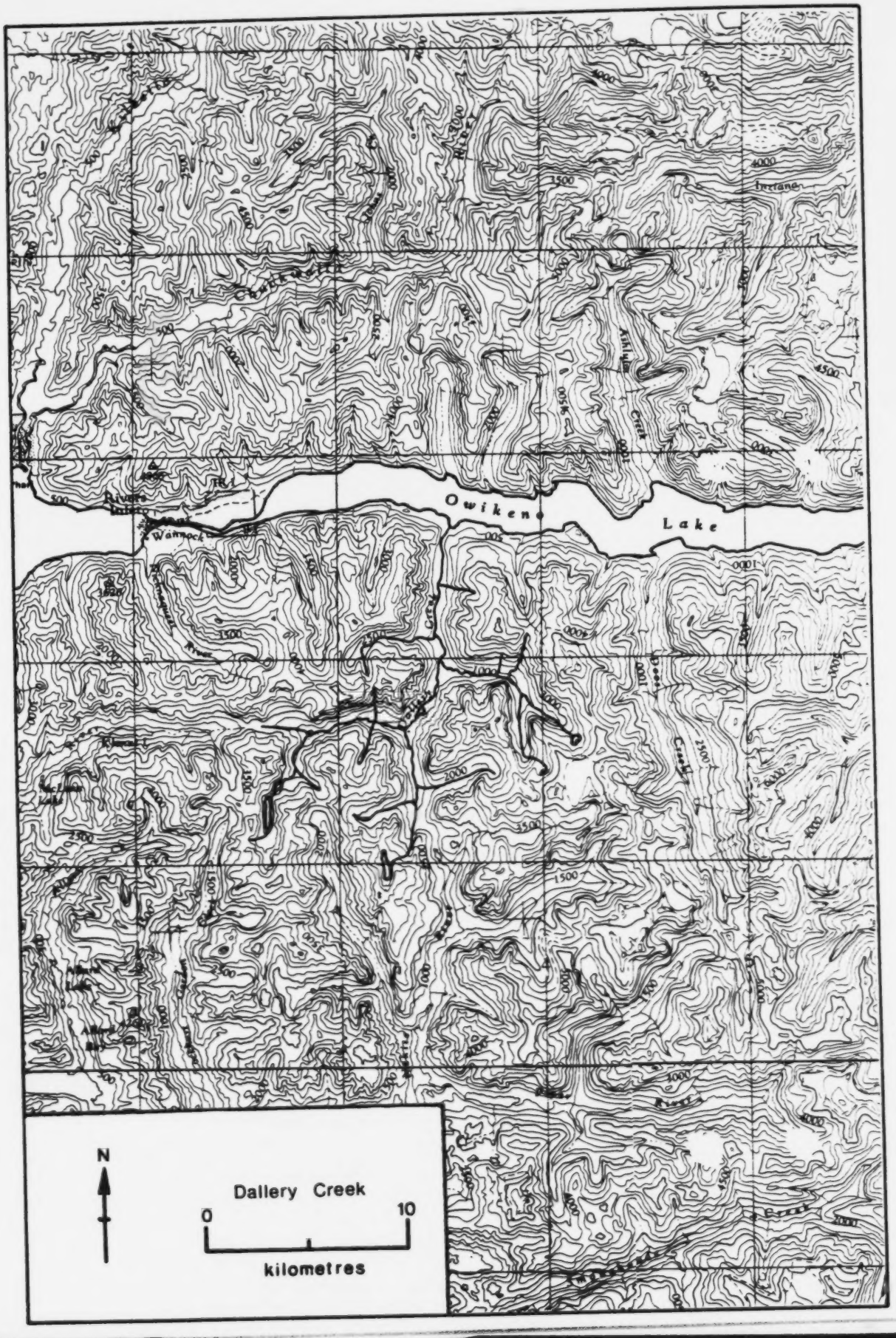
- 1962. Severe flooding at the end of September resulted in some loss of spawn.
- 1964. Over spawning in Neil Creek with 35,000 spawners.
- 1980. Logging camp construction underway near mouth of Clyak River.

ESCAPEMENT RECORD FOR CLYAK RIVER (including Young River and Niel Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			400	3500	475	
48			1150	8500	25	
49			2325	30000	75	
50			600	8500	75	
51			1150	5750	200	
52			2100	3000		
53			150	30000		
54				8000	100	
55				1500		
56				3500		
57				3500	N/0	
58			750	35000	15000	
59			200	750	N/0	
60			200	7500	3500	
61			750	3500	400	
62		25	750	7500	75000	
63		25	400	7500	75	
64			750	7500	35000	
65		75	750	400	75	
66		25	750	35000	15000	
67		N/0	25	3500	N/0	
68		UNK	200	7500	35000	
69		N/0	400	1500	25	
70		25	400	15000	75000	
71		N/0	200	5000	100	
72		N/0	1000	10000	175000	
73		N/0	800	4500	N/0	
74		N/0	1750	22500	35000	
75		25	450	5000	500	
76		N/0	100	400	60000	
77		30	300	800	100	
78		50	1000	22000	3000	
79		N/0	N/0	200	4000	
80		200	500	3000	40000	
81						
82						
83						
84						
85						
TIMING						
ARRIVE		AUG	AUG	AUG	JULY	
START		AUG	SEPT	E. AUG	AUG	
PEAK		AUG	OCT	L. AUG	L. AUG	
END		SEPT	DEC	L. SEPT	SEPT	

REMARKS

Steelhead are present in this system.


Owiken
Lake
Wannock
Dallery Creek
N
0
10
kilometres

NAME OF STREAM DALLERY CREEK (Dallac Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows N. into Owikeno L., Rge 2, Coast Dist.

POSITION 51 127 NE

LENGTH 6.5 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Impassable cascades at 6.5 km.

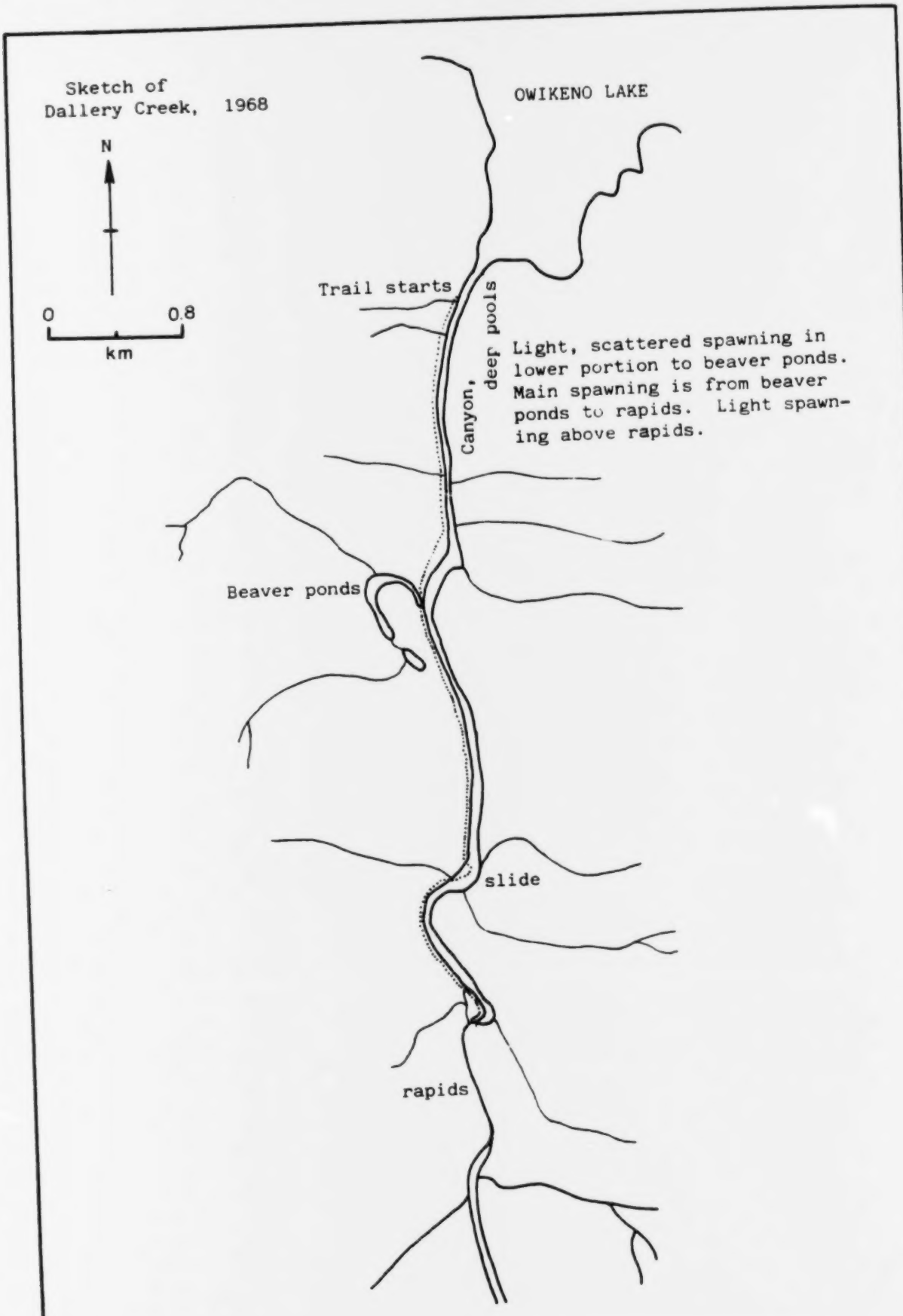
SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	4.0 to 6.5 km
CHINOOK	4.0 to 6.5 km
COHO	4.0 to 6.5 km
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS

- 1962. Flooding in late September and mid-November.
- 1969. Susceptible to flooding.


Sketch of
Dallery Creek, 1968
N
0
0.8
km
OWIKENO LAKE
Trail starts
Canyon, deep pools
Light, scattered spawning in lower portion to beaver ponds. Main spawning is from beaver ponds to rapids. Light spawning above rapids.
Beaver ponds
slide
rapids

ESCAPEMENT RECORD FOR DALLERY CREEK (Dallec River)

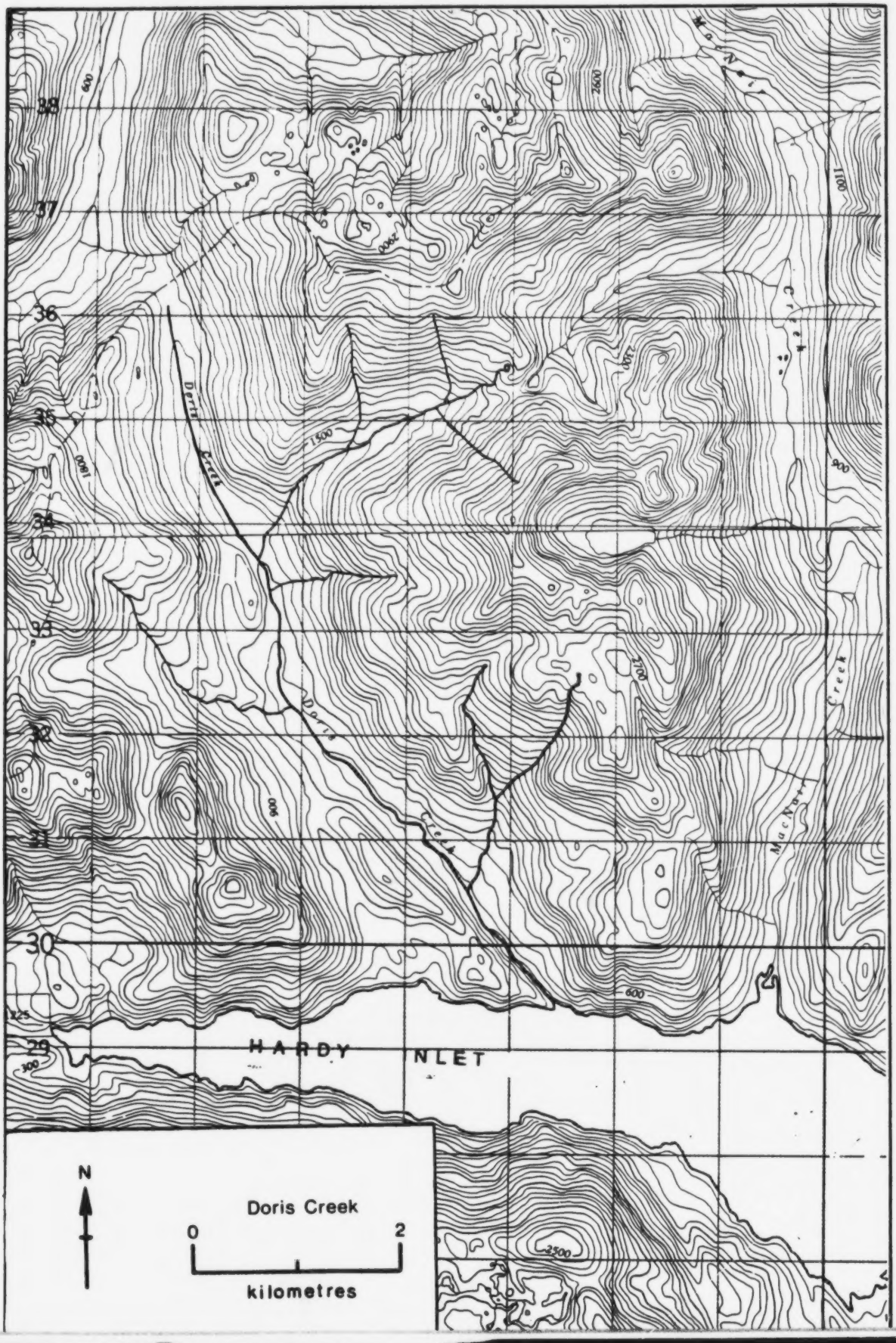
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	NO RECORD					
48	1500					
49	12000					
50	67500					
51	45000		75			
52	100000					
53	75000					
54	65000					
55	100000					
56	75000					
57	35000					
58	15000	UNK	N/O			
59	100000					
60	35000					
61	35000	UNK			UNK	
62	27500	UNK			UNK	
63	125000	UNK			N/O	
64	100000	N/O	UNK		N/O	
65	15000	200	750		75	
66	15000	75	UNK		N/O	
67	3500	200	UNK		25	
68	15000	75	UNK			
69	7500	200	400			
70	15000	75	UNK		UNK	
71	20000	40	UNK		N/O	
72	9000	100	UNK		5000	
73	22500	75	UNK		N/O	
74	22500	75	UNK	UNK	4000	
75	45000	30	N/O		300	
76	12000	N/O	500		700	
77	18000	80	50	50	400	
78	15000	N/O	50	N/O	150	
79	15000	N/O	N/O	25	400	
80	25000	50	N/O	N/O	750	
81						
82						
83						
84						
85						

TIMING

ARRIVE	SEPT	AUG	SEPT		AUG	
START	E. SEPT	E. AUG	OCT		M. AUG	
PEAK	E. OCT	SEPT	L. OCT		SEPT	
END	L. OCT	SEPT	DEC		L. SEPT	

REMARKS

Steelhead present in this creek.


38
37
36
35
34
33
32
31
30
29
HARDY
INLET
Doris Creek
MacNeil Creek
N
Doris Creek
0
2
kilometres

NAME OF STREAM DORIS CREEK

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows SE. into Hardy Inlet, Moses Inlet, Rge 2, Coast Dist.

POSITION 51 127 NW

LENGTH _____ km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

- 1979. Reputed to support chinook.

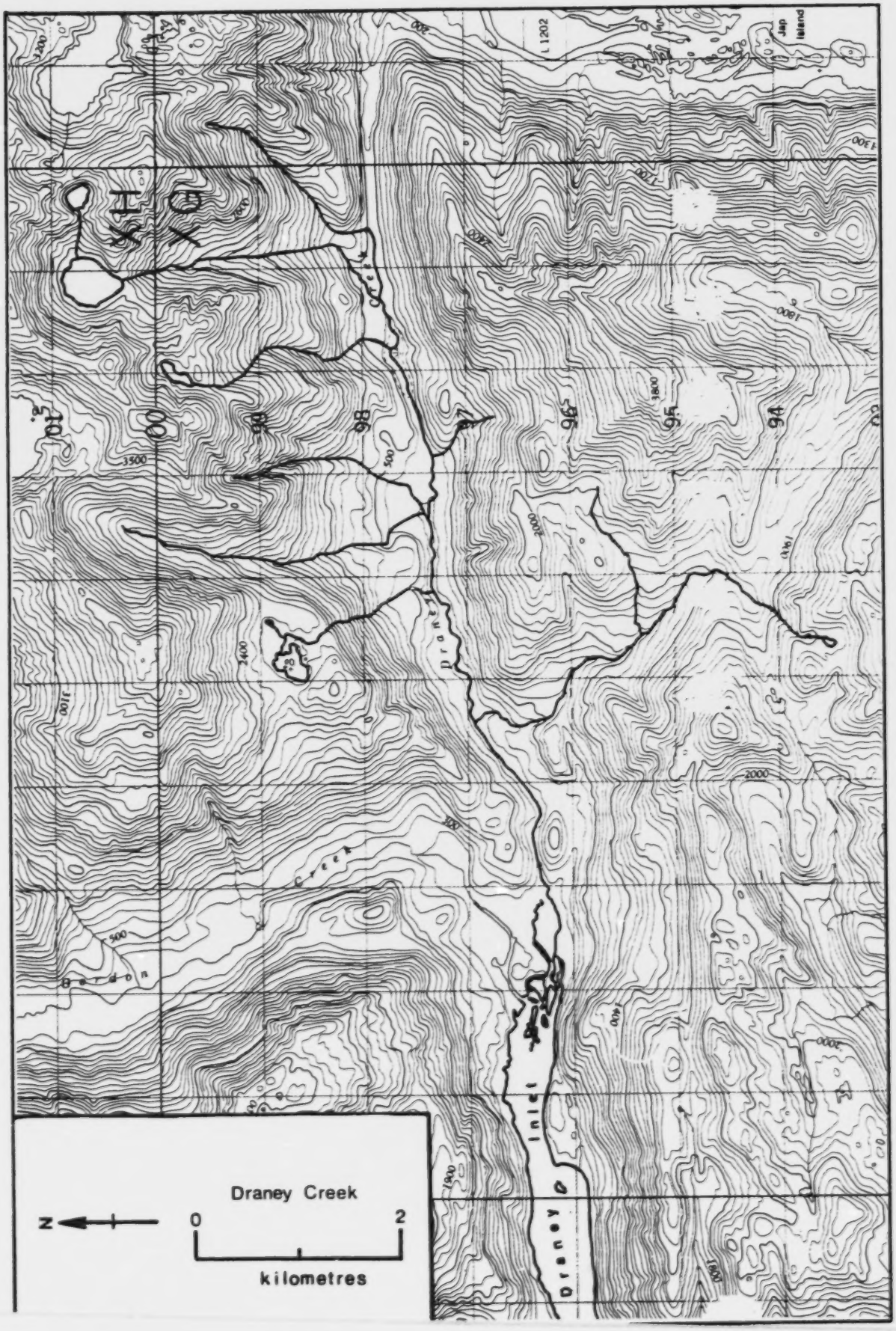
ESCAPEMENT RECORD FOR DORIS CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52						
53						
54						
55						
56		NO RECORD PRIOR TO 1975				
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75		N/O		N/O		
76						
77		NO RECORD FROM 1976 TO 1978				
78						
79		N/O		N/O		UNK
80						
81						
82						
83						
84						
85						

TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS

1979. Coho fry were observed this year.


Draney Creek
N
0
2
kilometres
Draney Inlet
Jap Island
Boulder Creek
Draney
Oxford
101
100
99
98
97
96
95
94
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1202

NAME OF STREAM DRANEY CREEK (Right-hand Stream)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into head of Draney Inlet, Rge 2, Coast Dist.

POSITION 51 127 SE

LENGTH 2.0 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

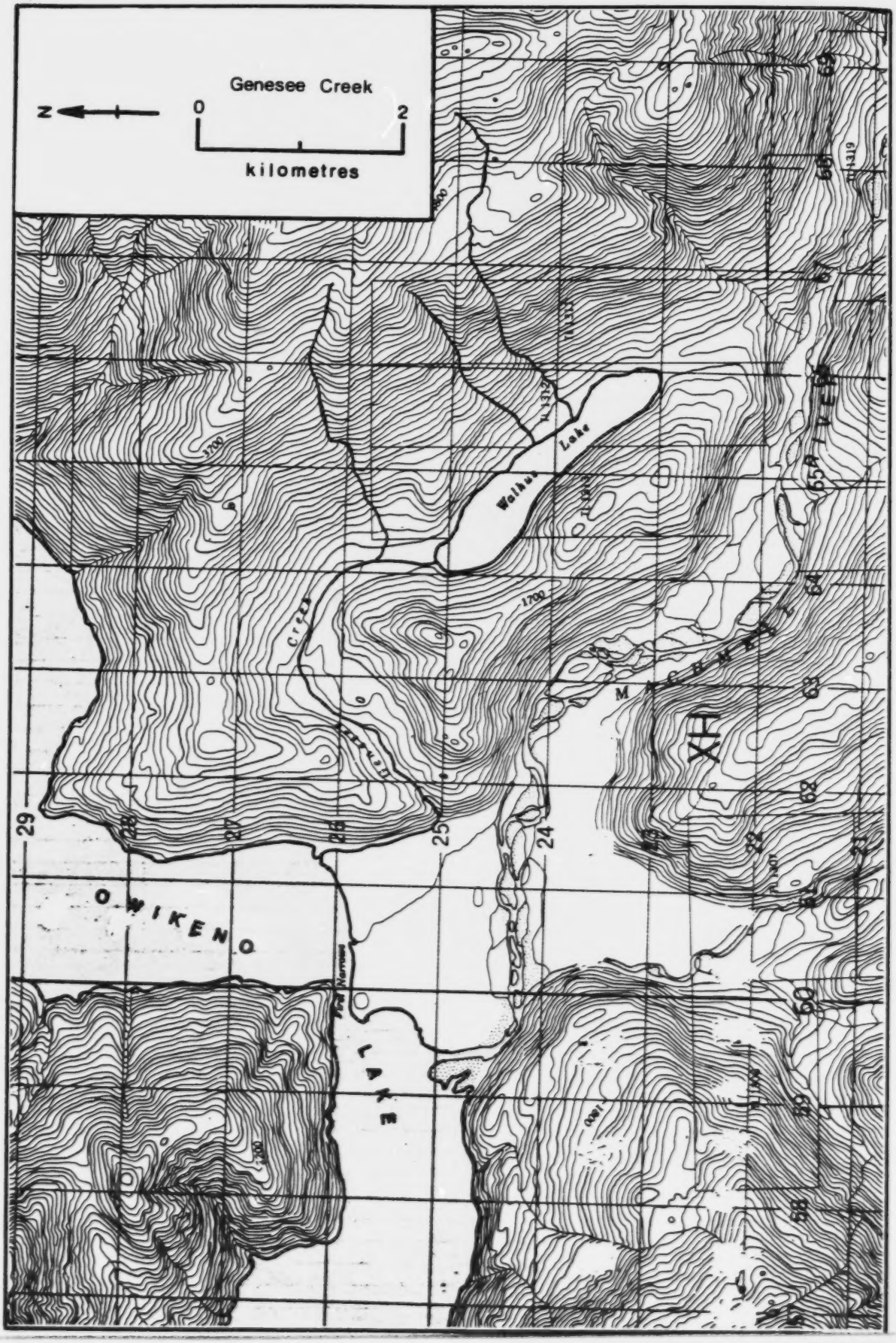
GENERAL REMARKS _____

-1962. Late September and mid-November floods caused extensive scouring of the channel.

ESCAPEMENT RECORD FOR DRANEY CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59		NO	RECORD PRIOR	TO 1978		
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78			100	1800	800	
79	25		50	4000	300	
80			100	6000	8000	
81						
82						
83						
84						
85						
TIMING						
ARRIVE			AUG	AUG	AUG	
START			SEPT	SEPT	AUG	
PEAK			OCT	OCT	SEPT	
END			NOV	OCT	OCT	

REMARKS Prior to 1978, escapement was included in the Lockhart Gordon Creek file.


Genesee Creek
N
0
2
kilometres
Walbus Lake
Creek
OWIKENO
LAKE
XH
29
28
27
26
25
24
68
67
66
65
64
63
62
61
60
59
58
57

NAME OF STREAM GENESEE CREEK

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into Owikeno L., N. of Machmell R., Rge 2, Coast Dist. POSITION 51 126 NW

LENGTH 1.5 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Impassable falls at 1.5 km.

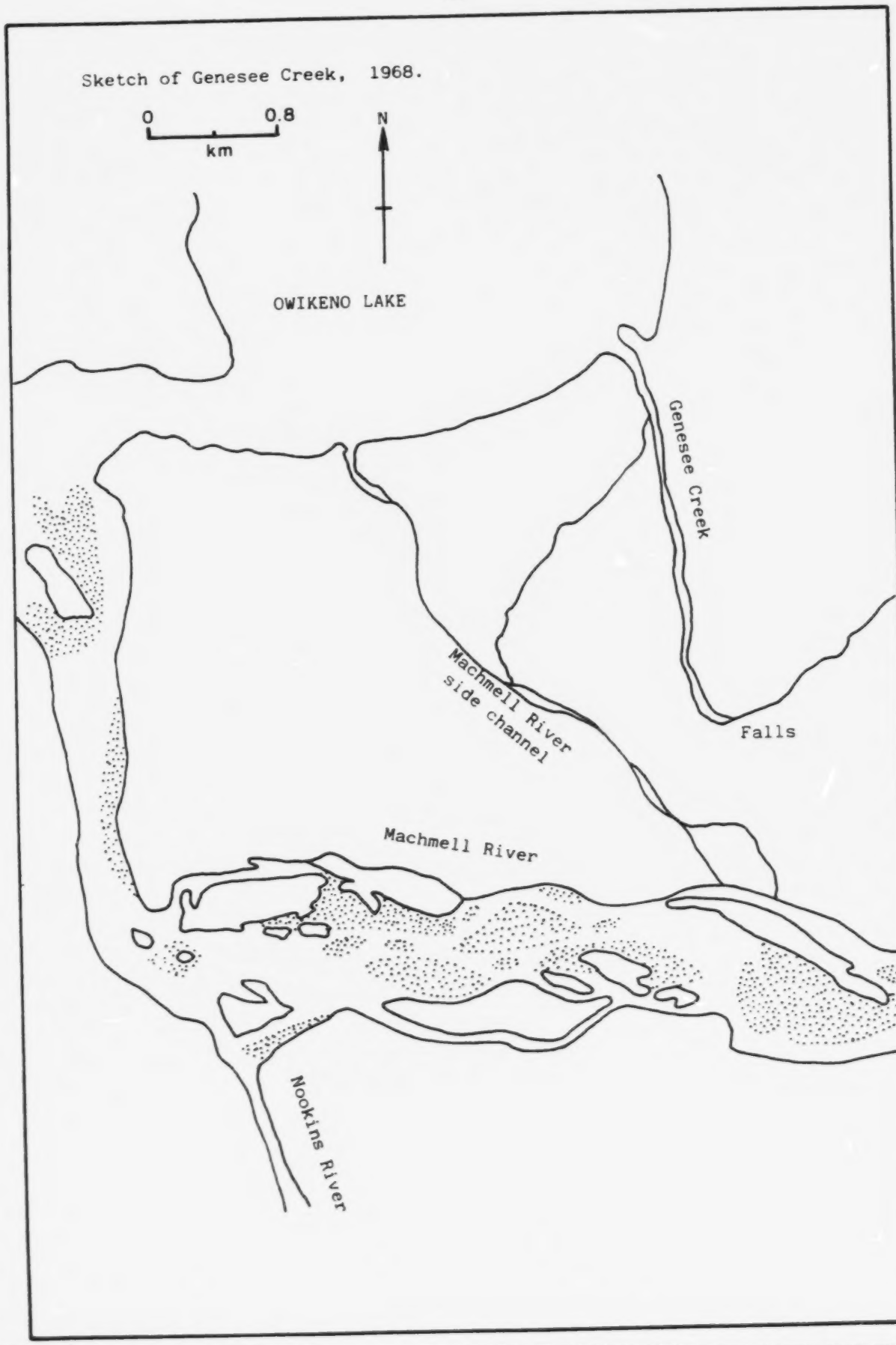
SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	from Machmell River flood channel to falls
CHINOOK	
COHO	from Machmell River flood channel to falls
CHUM	
PINK (ODD YEAR)	from Machmell River flood channel to falls
PINK (EVEN YEAR)	from Machmell River flood channel to falls
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

- 1948. The glacially fed Machmell River developed a flood channel breaking through into Genesee Creek and 10 cm of glacial clay was deposited on the lower 300 m of the creek.
- 1952. Because of the accumulation of glacial clay, the lower 300 m of the creek is unsuitable for spawning.
- 1962. Flooding in late September and mid-November.
- 1973. Over spawning evident with 45,000 spawners.
- 1978. Machmell River flood channel was blocked by the river in January. Genesee Creek water was clear throughout.


Sketch of Genesee Creek, 1968.
0
0.8
km
N
OWIKENO LAKE
Genesee Creek
Falls
Machmell River
side channel
Machmell River
Nookins River

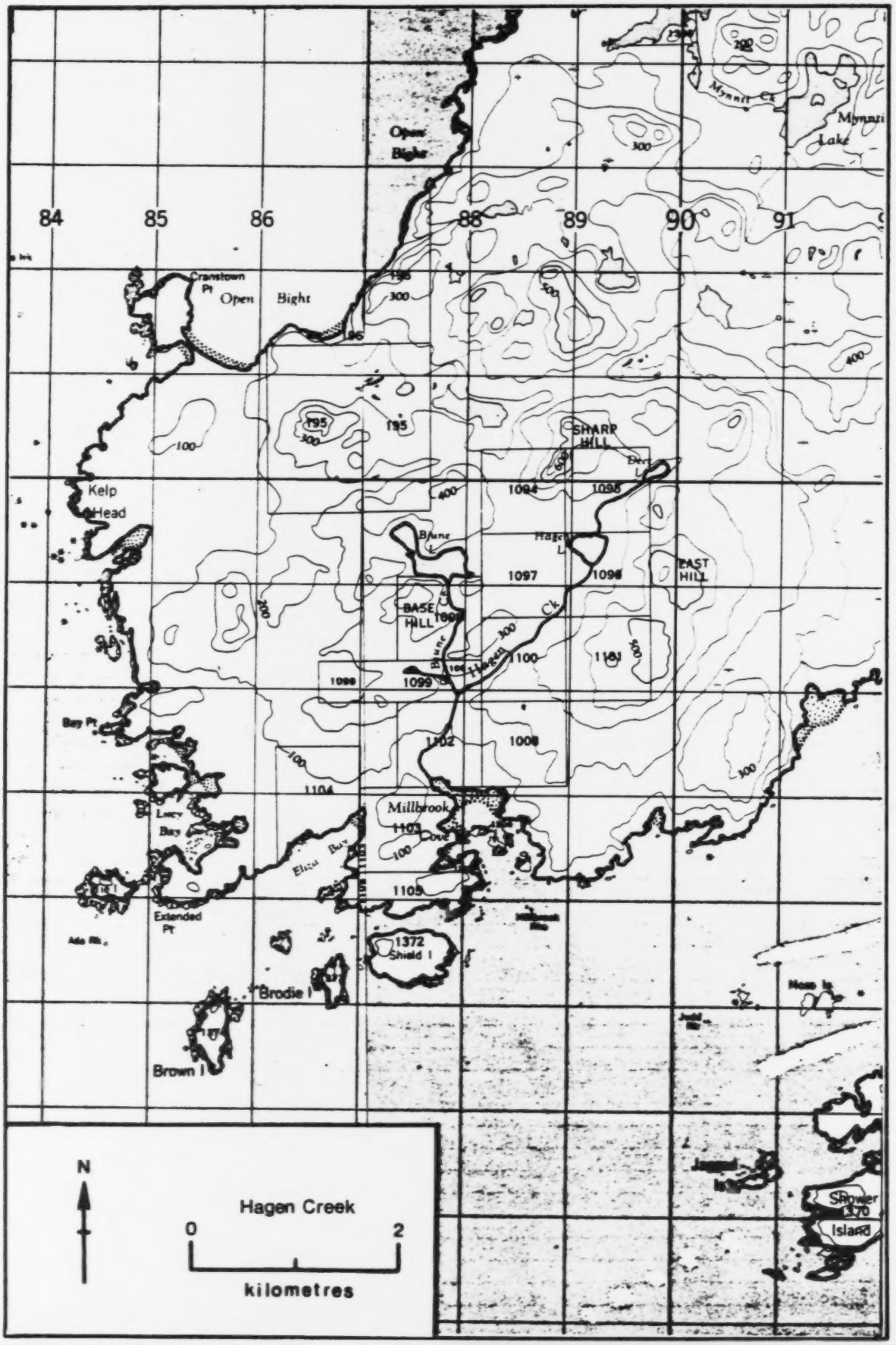
ESCAPEMENT RECORD FOR GENESEE CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947		NO	RECORD			
48	1500				3500	
49	15000			UNK	1500	
50	10500			UNK	1500	
51	4500		75		1500	
52	15000				400	
53	15000				1500	
54	1000		N/O	2	N/O	
55	3500			2	UNK	
56	3500				200	
57	400					
58	3500				25	
59	3500				75	
60	3500					
61	3500				UNK	
62	35000		UNK			
63	55000				25	
64	15000		UNK		UNK	
65	UNK	N/O	N/O		N/O	
66	15000	N/O	75		N/O	
67	15000	UNK	UNK			
68	35000		N/O		N/O	
69	15000		25			
70	7500		75		25	
71	55000		N/O		N/O	
72	27500		50	1	50	
73	45000		25	N/O	25	
74	15000		100	N/O	400	
75	14500		N/O		25	
76	2500		N/O		200	
77	600				N/O	
78	5000				1500	
79	5000				3000	
80	4500			25	1000	
81						
82						
83						
84						
85						

TIMING

ARRIVE	L. AUG		SEPT		AUG	
START	E. SEPT		E. OCT		SEPT	
PEAK	E. OCT		M. OCT		SEPT	
END	NOV		NOV		L. SEPT	

REMARKS


84
85
86
88
89
90
91
Open Bight
Cranstown Pt
Open Bight
Kelp Head
SHARP HILL
EAST HILL
BASE HILL
Millbrook
Bay Pt
Lucy Bay
Eliza Bay
Extended Pt
Brodie I
Brown I
1372 Shield I
Shower Island
Hagen Creek
N
0
2
kilometres

NAME OF STREAM HAGEN CREEK (Millbrook Cove Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Millbrook Cove, Smith Sound, Rge., 2 Coast

LAT. POSITION 51 127 SW

LENGTH _____ km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

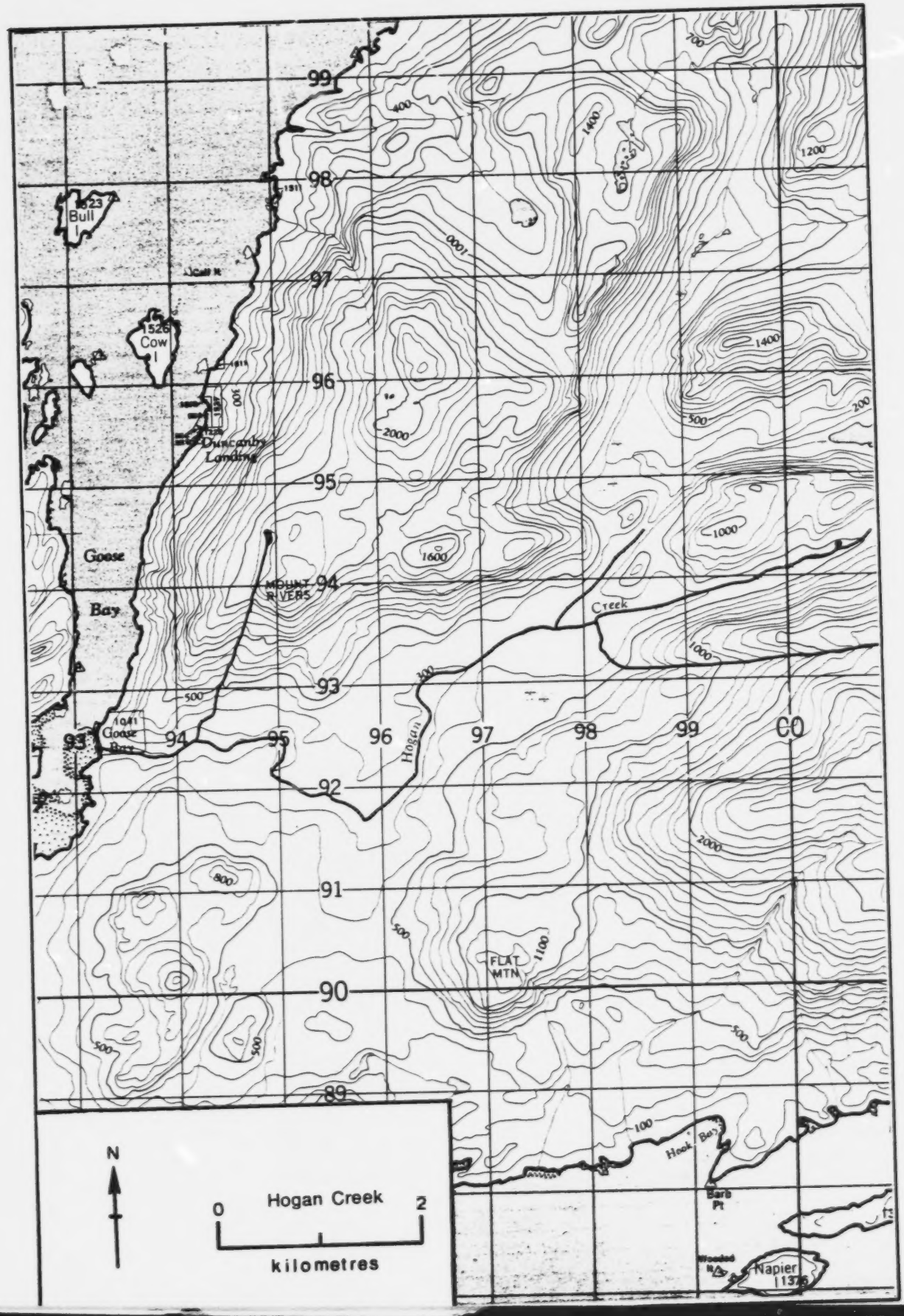
GENERAL REMARKS _____

ESCAPEMENT RECORD FOR HAGEN CREEK (Millbrook Cove Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51		NO	RECORD PRIOR	TO 1955		
52						
53						
54						
55			400			
56			NO RECORD			
57			N/O			
58			N/O			
59			N/O			
60						
61						
62						
63						
64		NO	RECORD FROM	1960 TO 1974		
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75			N/O			
76						
77						
78						
79						
80			NO RECORD			
81						
82						
83						
84						
85						

TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS


Bull I
Cow I
Duncanby Landing
Goose Bay
MOUNT RIVERS
Hogan Creek
FLAT MTN
Hawke Bay
Napier
N
0
2
kilometres
Hogan Creek

NAME OF STREAM HOGAN CREEK (Goose Bay Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into Goose Bay, Rivers Inlet, Rge. 2, Coast Dist.

POSITION 51 127 SW

LENGTH ____ km WIDTH ____ m DRAINAGE ____ km^2

COMPOSITION: BEDROCK ____ BOULDER ____ COARSE ____ FINE ____

SILT & SAND ____ UNCLASSIFIED ____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA ____ m^2 SPAWNING AREA ____ m^2

DISCHARGE (m^3/s) ____

TEMPERATURE (°C) ____

BARRIERS OR POINTS OF DIFFICULT ASCENT ____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM ____

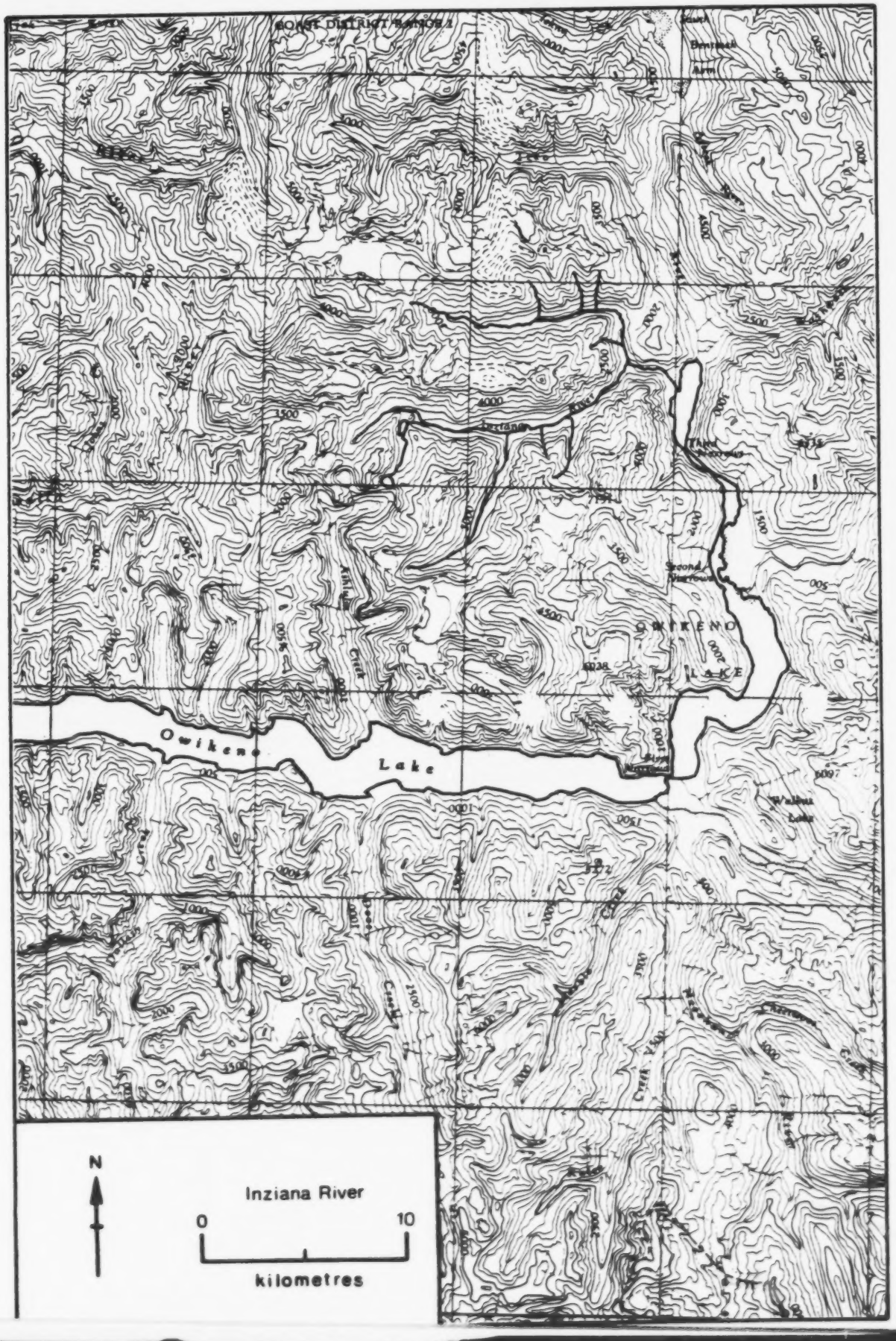
GENERAL REMARKS ____

ESCAPEMENT RECORD FOR HOGAN CREEK (Goose Bay Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52			NO	RECORD PRIOR TO 1975		
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75				3		
76						
77						
78				300		
79						
80						
81						
82						
83						
84						
85						

TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS


COAST DISTRICT SHEET 2
Owikeno Lake
OWIKENO LAKE
Inziana River
N
0
10
kilometres

NAME OF STREAM INZIANA RIVER (Indian River)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows E. into head of Owikeno L., Rgc. 2, Coast Dist.

POSITION 51 126 NW

LENGTH 1.25 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Impassable falls at 1.25 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	to 1.0 km
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

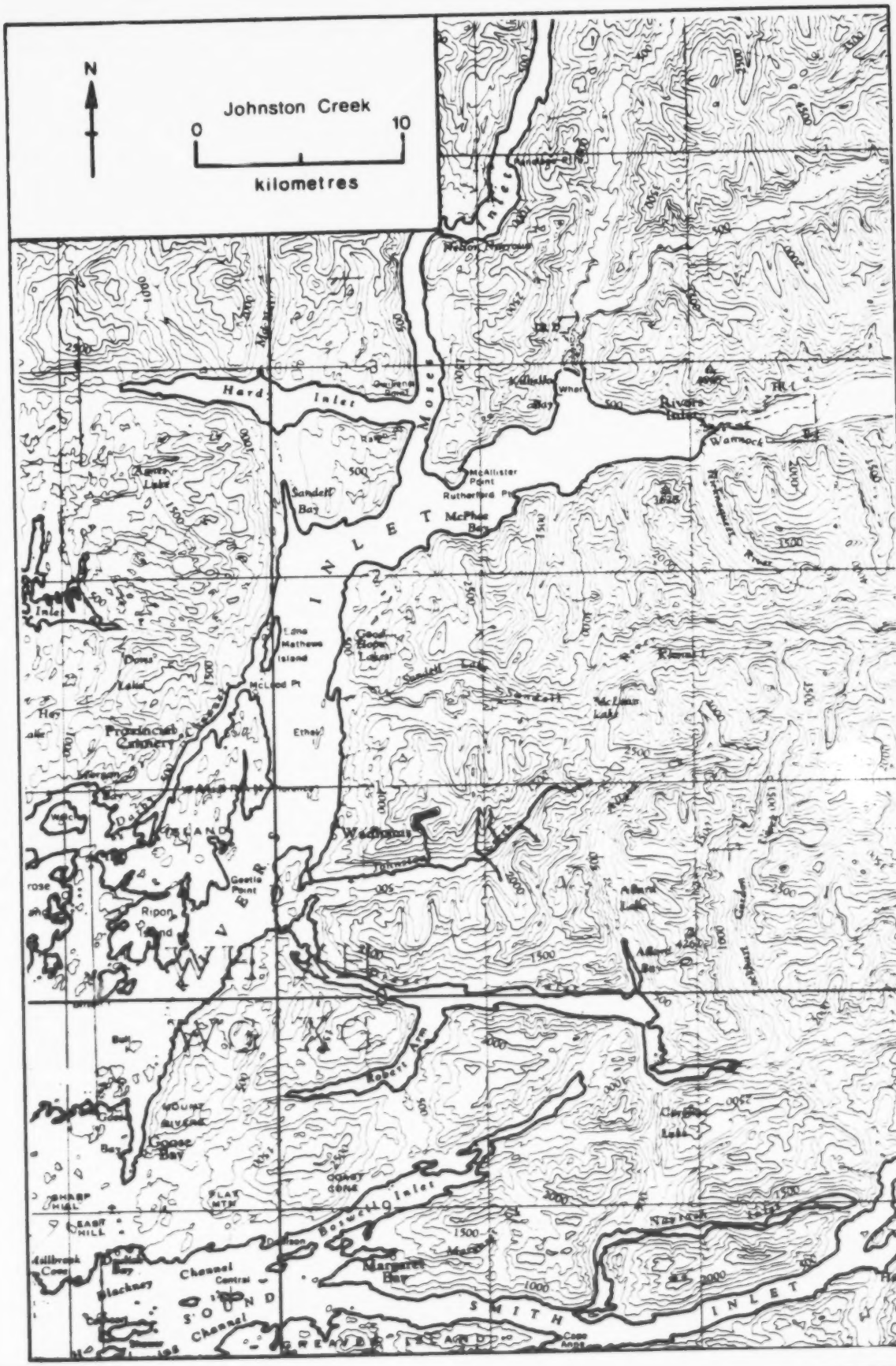
- 1963. Flooding in late September and mid-November.
- 1964. No over spawning evident with 75,000 spawners.
- 1972. Flow through a flood channel located at 1.6 km increases annually.
- 1978. The bulk of the flow is now in the flood channel.

ESCAPEMENT RECORD FOR INZIANA RIVER (Indian River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48	35000	UNK				
49	15000	UNK				
50	37500					
51	35000	UNK	UNK			
52	50000	UNK				
53	75000					
54	25000					
55	3500					
56	15000	1				
57	7500					
58	7500					
59	75000					
60	3500	UNK				
61	7500	UNK				
62	35000	UNK	UNK			
63	175000					
64	75000	N/O				
65	15000	N/O				
66	7500	N/O				
67	1500	N/O				
68	100000					
69	1500		200			
70	1500		UNK			
71	3500		N/O			
72	1500	N/O	N/O		N/O	
73	162500	UNK	N/O		N/O	
74	40000	UNK	N/O		N/O	
75	30000		N/O		N/O	
76	25000		N/O			
77	6000		N/O			
78	32500					
79	22500		N/O			
80	22500					
81						
82						
83						
84						
85						

TIMING						
ARRIVE	AUG					
START	E. SEPT					
PEAK	M. SEPT					
END	M. OCT					

REMARKS


N
Johnston Creek
0
10
kilometres
Hard Inlet
Sandell Bay
McPhee Bay
INLET
Good Hope Lakes
Provincial Cannery
Ripon Island
Goose Bay
Boswell Inlet
Margaret Bay
SMITH INLET
Channel
SOUND

NAME OF STREAM JOHNSTON CREEK (Hole-in-the-wall Creek)

OBSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into Rivers Inlet, N. of Draney Inlet, Rge 2, Coast List.

POSITION 51 127 SW

LENGTH 10 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	-
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	from 1.5 to 8.0 km
CHUM	
PINK (ODD YEAR)	from 4.0 to 8.0 km
PINK (EVEN YEAR)	from 4.0 to 8.0 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

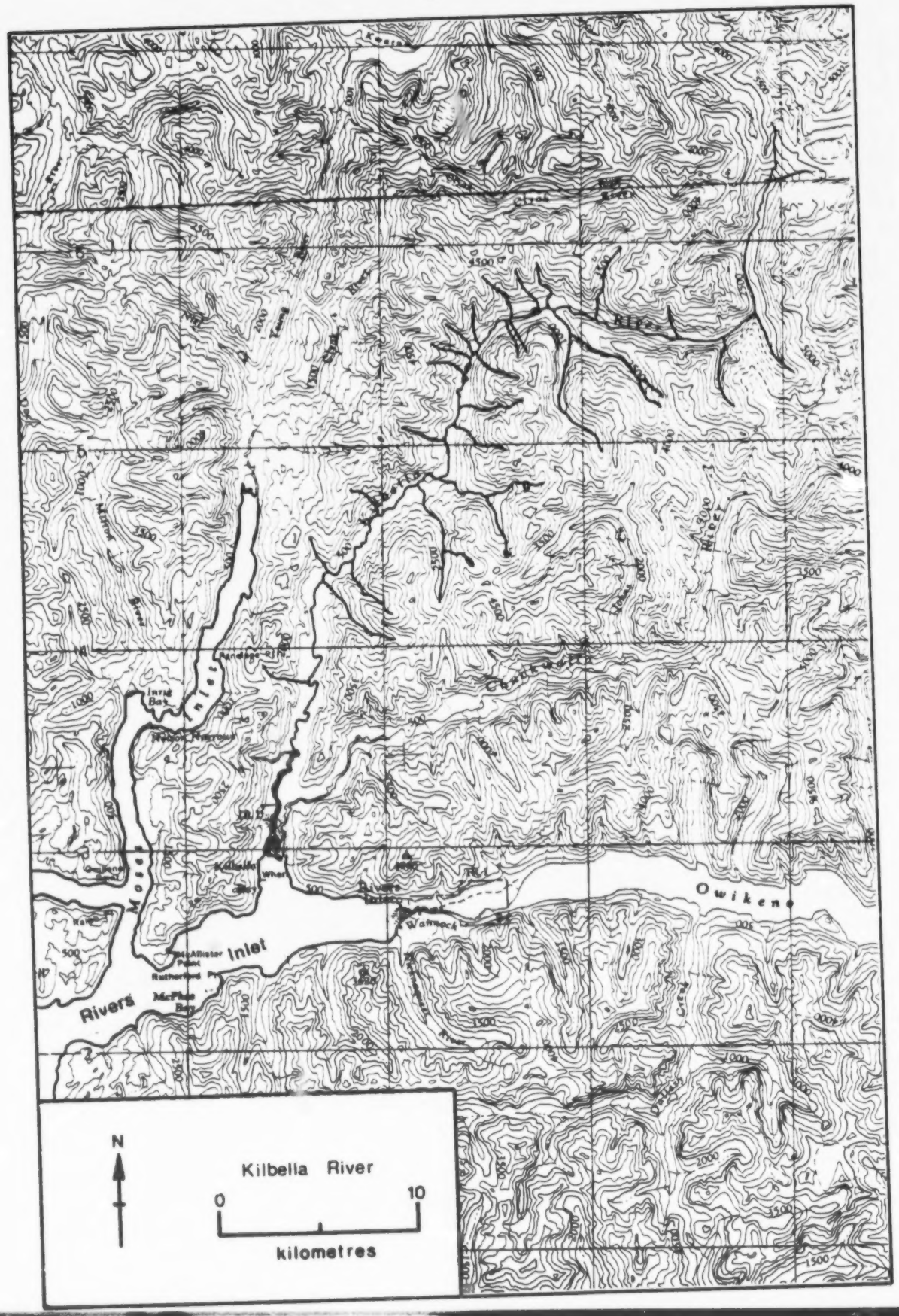
GENERAL REMARKS

- 1973. Rivers Inlet boundary adjusted to protect pink run.

ESCAPEMENT RECORD FOR JOHNSTON CREEK (Hole-in-the-wall Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			600		5000	
48			400		3500	
49			1500		35000	
50			750		35000	
51			1500		35000	
52			1500		35000	
53			3500		7500	
54			100		5000	
55			200		3500	
56					35000	
57			75		3500	
58			1500	1500	3500	
59			200		400	
60			75	N/O	75	
61			7500		3500	
62			400		15000	
63			400		1500	
64			3500		7500	
65			75	25	200	
66			400	N/O	15000	
67			400		25	
68			200	N/O	35000	
69			200	N/O	400	
70			UNK		3500	
71			400		25000	
72			750	N/O	35000	
73			750	N/O	3500	
74			750	N/O	12500	
75	2		N/O		60000	
76			1500		85000	
77			400		40000	
78			800		40000	
79			1000		25000	
80			500		25000	
81						
82						
83						
84						
85						
TIMING						
ARRIVE			SEPT		AUG	
START			OCT		E. SEPT	
PEAK			OCT		E. SEPT	
END			NOV		SEPT	

REMARKS


Inlet
Owiken
Inlet
Rivers
N
Kilbella River
0
10
kilometres

NAME OF STREAM KILBELLA RIVER

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Kilbella Bay, Rivers Inlet, Rge. 2, Coast Dist.

POSITION 51 127 NE

LENGTH 48 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Passable falls at 16 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	from 6.5 to 37.0 km
COHO	from 6.5 to 17.5 km
CHUM	from 6.5 to 17.5 km
PINK (ODD YEAR)	throughout to 17.5 km
PINK (EVEN YEAR)	from 6.5 to 25 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

Portion above Mallon Creek (48 km) provides no suitable salmonid habitat.

GENERAL REMARKS

- 1962. Flooding in late September and mid-November.
- 1964. Flooding in September and October.
- 1966-77. Extensive silting and channel instability to 6.5 km. No spawning in this section.
- 1973. Logging road constructed to 24 km.
September flooding resulted in loss of spawn.
- 1975. November flooding and mud slides resulted in extensive loss of spawn. The Krantz Creek stock was lost entirely.
- 1977. Channel instability on Krantz Creek is endangering a pink salmon spawning area.
- 1980. Extensive log jam at 11 km. Large bridge washed out at 29 km.

ESCAPEMENT RECORD FOR KILBELLA RIVER

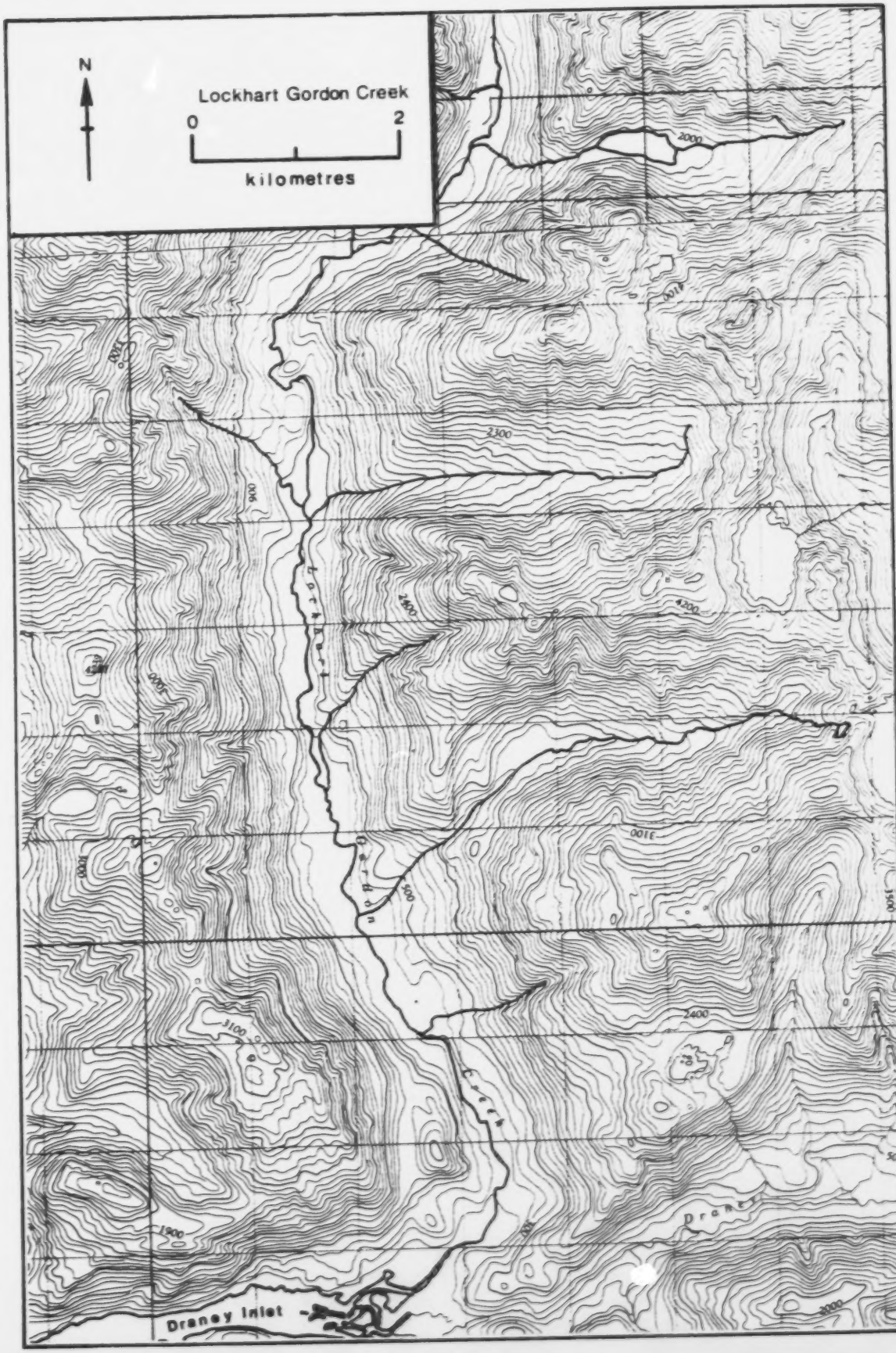
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			400	400	15000	
48			750	3500	75	75
49			3500	UNK	750	
50			3500	3500	750	
51		UNK	3500	3500	35000	
52		UNK	3500	3500	1500	
53		UNK	750	1500	15000	
54		UNK	500	2000	500	
55		UNK	UNK	400	3500	
56		200	75	1500	7500	
57		UNK	N/O	N/O	N/O	
58		N/O	750	N/O	N/O	
59		750	3500	750	3500	
60		75	200	75	750	
61		400	750	1500	3500	
62		400	3500	400	15000	
63		00	400	400	7500	
64		200	1500	400	7500	
65		200	3500	25	3500	
66		200	750	200	7500	
67		N/O	400	N/O	N/O	
68		N/O	1500	N/O	7500	
69		25	400	N/O	75	
70		1500	400	200	35000	
71		30	UNK	20	3500	
72		35	750	200	200000	
73		100	400	700	750	
74		750	1500	400	55000	
75		100	N/O	N/O	10000	
76		50	200		20000	
77		150	200	400	2000	
78		200	500	800	500	
79		N/O	100	N/O	1000	
80		N/O	200	450	5000	
81						
82						
83						
84						
85						

TIMING

ARRIVE		JULY	AUG	AUG	E. AUG	
START		L. AUG	SEPT	SEPT	AUG	
PEAK		SEPT	L. OCT	OCT	L. AUG	
END		L. SEPT	DEC	NOV	SEPT	

REMARKS

There are steelhead present in this river.


N
Lockhart Gordon Creek
0
2
kilometres
Dranoy Inlet
Dranoy

NAME OF STREAM LOCKHART GORDON CREEK

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into head of Draney Inlet, Rge. 2, Coast Dist.

POSITION 51 127 SE

LENGTH 3 km WIDTH m DRAINAGE km²

COMPOSITION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

PERCENT GRADIENT	
.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA m² SPAWNING AREA m²

DISCHARGE (m³/s)

TEMPERATURE (°C)

BARRIERS OR POINTS OF DIFFICULT ASCENT
Impassable falls at 3.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to falls
CHUM	to falls
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS
- 1962. Extensive silting resulted from late September and mid-November floods.

ESCAPEMENT RECORD FOR LOCKHART GORDON CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			275	5000		
48			200	7500		
49			200	750		
50			200	1500		
51			200	750		
52			1500	3500		
53			200	750		
54			N/O	5000		
55			25	400		
56			50	1500		
57			N/O	3500		
58			N/O	1500		
59				750		
60				3500		
61			200	3500		
62			1500	7500	200	
63			1500	15000		
64			200	15000	75	
65			N/O	75	N/O	
66			N/O	75	N/O	
67			N/O	400	N/O	
68			N/O	15000	N/O	
69			400	750	N/O	
70			400	15000	N/O	
71			80	2500	25	
72			400	3000	400	
73			500	8000	175	
74			400	2500	750	
75			N/O	3000	N/O	
76			200	4000	1000	
77			150	4000	1000	
78			300	3000	15000	
79		UNK	N/O	1000	1500	
80			200	6000	4000	
81						
82						
83						
84						
85						
TIMING						
ARRIVE			SEPT	AUG	L. AUG	
START			SEPT	AUG	SEPT	
PEAK			OCT	AUG	M. OCT	
END			NOV	SEPT	L. OCT	

REMARKS

Machmell River
0
10
kilometres

NAME OF STREAM MACHMELL RIVER (Markwell River)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into Owikeno L., Rge. 2, Coast Dist.

POSITION 51 126 NW

LENGTH 32 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT

0.00 - 0.25	
0.26 - 0.50	
0.51 - 0.75	
0.76 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Passable cascades at 20 km.

Impassable falls at 32 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

A silt laden, glacial river flowing in braided channels over an outwash plain. Occasionally threatens to shift course into Genesee Creek and damage spawning grounds. The lower channel flowing through the delta is especially unstable.

- 1976. Logging road construction commenced. Bridge to cross river at 7.0 km.
- 1979. Logging commenced in the watershed.
- 1980. Flooding in December caused extensive damage thoughout the system.

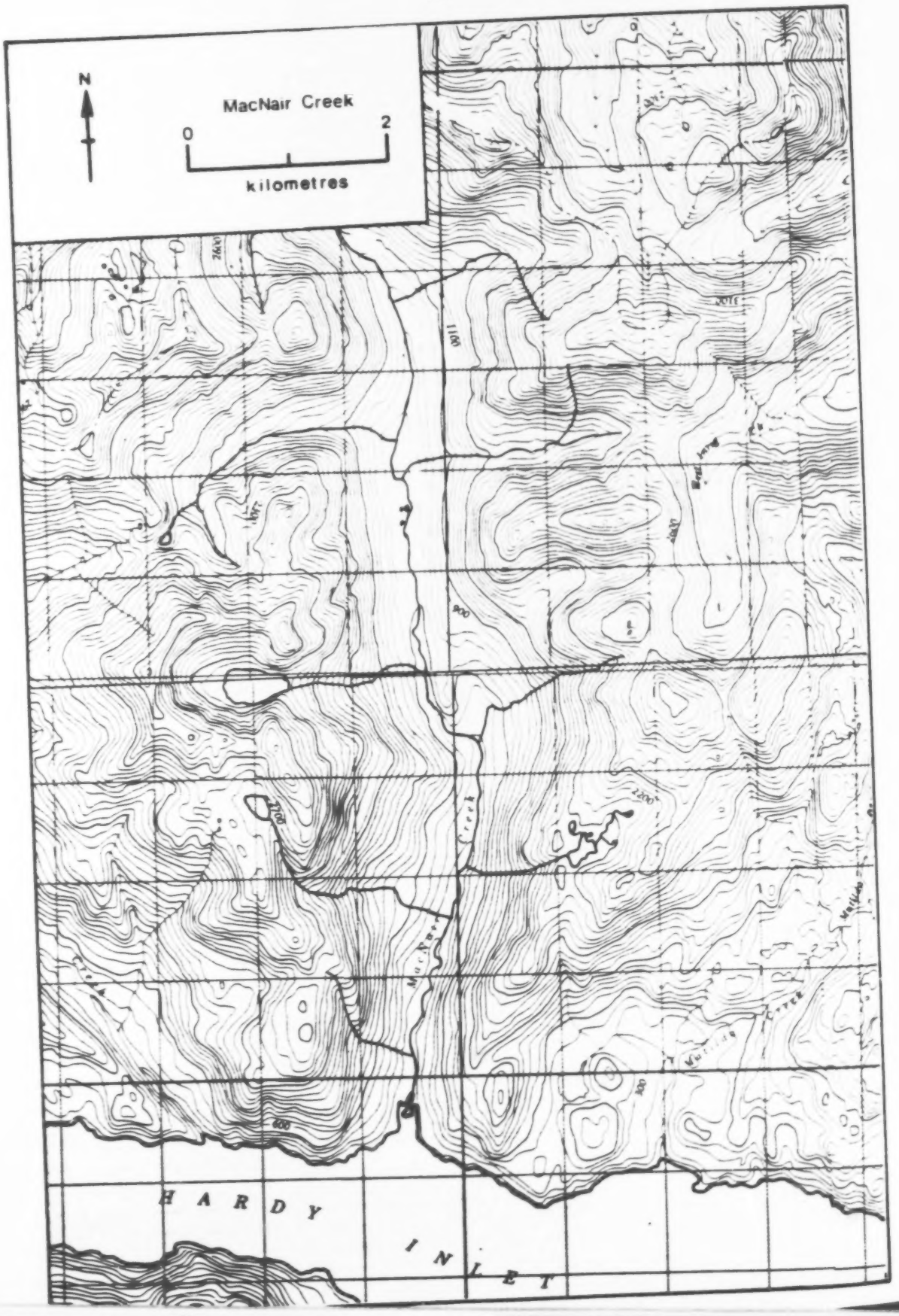
ESCAPEMENT RECORD FOR MACHMELL RIVER (Markwell River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49		NO RECORD	PRIOR TO 1954			
50						
51						
52						
53						
54		NOT	INSPECTED			
55	UNK					
56	UNK					
57	UNK					
58	UNK					
59	UNK					
60	UNK					
61	UNK					
62	UNK					
63	UNK					
64	UNK					
65	N/O					
66	UNK					
67	UNK					
68	UNK					
69	UNK					
70	N/O					
71	N/O					
72	2500					
73	12500	UNK	UNK			
74	10000	UNK	UNK			
75	7500					
76	7000					
77	2000					
78	15000		UNK			
79	35000		200			
80	17500		N/O			
81						
82						
83						
84						
85						

TIMING

ARRIVE	AUG					
START	L. AUG					
PEAK	SEPT					
END	OCT					

REMARKS


N
MacNair Creek
0
2
kilometres
HARDY
INLET

NAME OF STREAM MacNAIR CREEK

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Hardy Inlet, Rge. 2, Coast Dist.

POSITION 51 127 NW

LENGTH 11 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.26 - 0.35	
0.36 - 0.50	
0.51 - 0.75	
0.76 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Passable cascades at 2.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	throughout, mainly to 3.0 km
CHUM	to 2.5 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 2.5 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

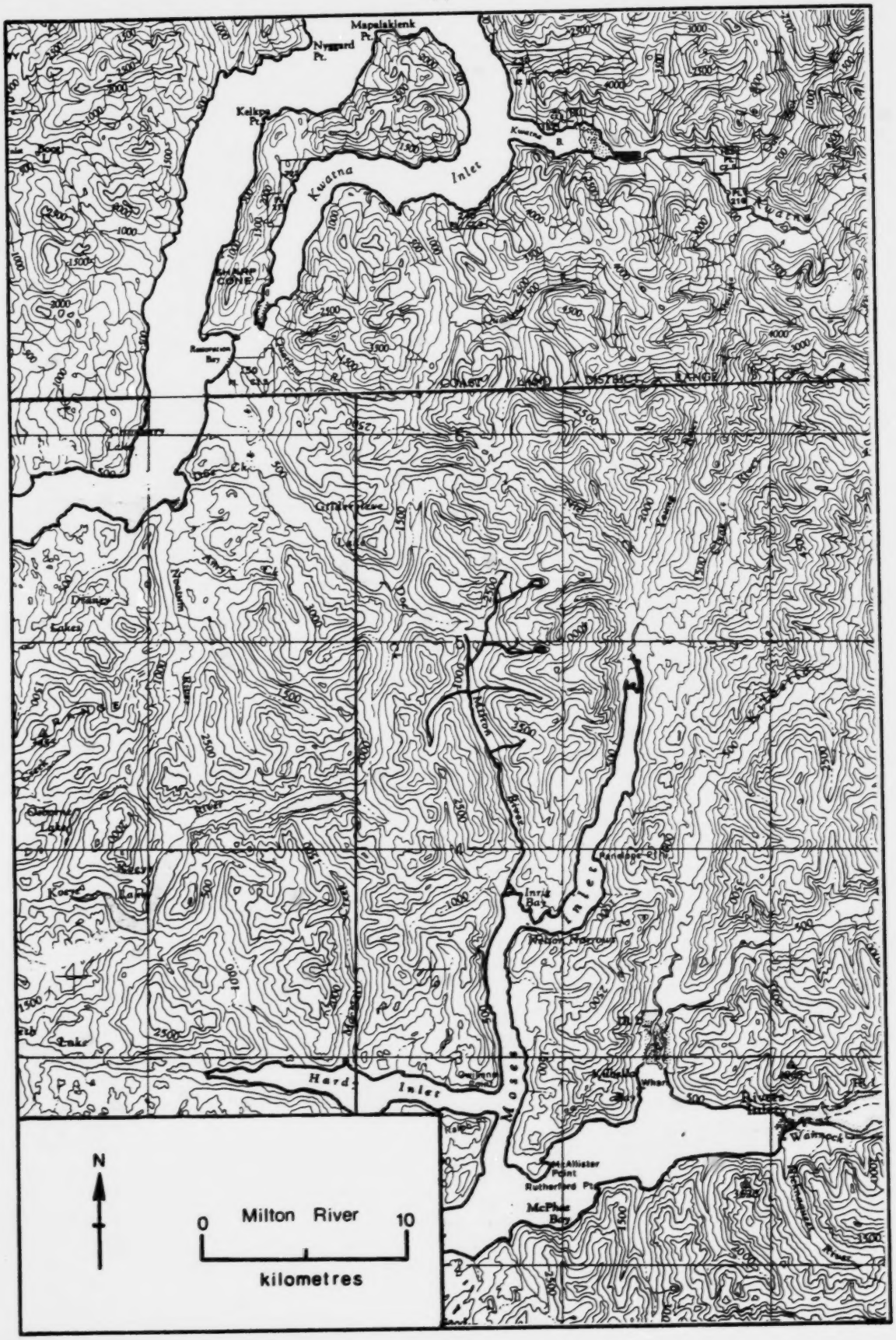
1966. Flooding in late October.

1970. Spawning grounds of poor quality.

ESCAPEMENT RECORD FOR MacNAIR CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			25	1500	200	
48			75	1500		
49			750	750		
50			750	1500		
51			200	750	750	
52			750	3500	200	
53			25	25		
54			N/O	3500	50	
55				200		
56				200		
57			75	3500	N/O	
58			200	7500		
59				750		
60			25	3500		
61			400	3500		
62			200	3500	200	
63			200	3500		
64			400	3500	200	
65			N/O	200	N/O	
66			N/O	3500	7500	
67			N/O	3500	N/O	
68			N/O	3500	7500	
69			200	200		
70			75	25	N/O	
71		1	N/O	2500	30	
72			N/O	3500	1500	
73			50	900	25	
74			75	400	750	
75			20	350	250	
76			N/O	100	1500	
77			N/O	500	N/O	
78			200	500	10000	
79			N/O	500	200	
80			N/O	750	5000	
81						
82						
83						
84						
85						
TIMING						
ARRIVE			AUG	M. AUG	AUG	
START			L. SEPT	L. AUG	AUG	
PEAK			L. OCT	M. SEPT	AUG	
END			DEC	OCT	SEPT	

REMARKS


Mapalakienk Pt.
Nygard Pt.
Kakos Pt.
Kwatna Inlet
Kwatna R.
Kwatna Bay
Kwatna Bar
CONE
Kwatna Bay
COAST LAND DISTRICT RANGE
Dean Ch.
Graham Island
Dean R.
Kwatna River
Kitlope River
Inrig Bay
Inlet
Namu
Hard Inlet
Moses
Rivers Inlet
Wannock
McAllister Point
Rutherford Pt.
McPhee Bay
N
0
Milton River
10
kilometres

NAME OF STREAM MILTON RIVER

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into Inrig Bay, Moses Inlet, Rge. 2, Coast Dist.

POSITION 51 127 NE

LENGTH 11 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (^{o}C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Passable falls at 5.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to 3.0 km
CHUM	to 3.0 km
PINK (ODD YEAR)	to 3.0 km
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

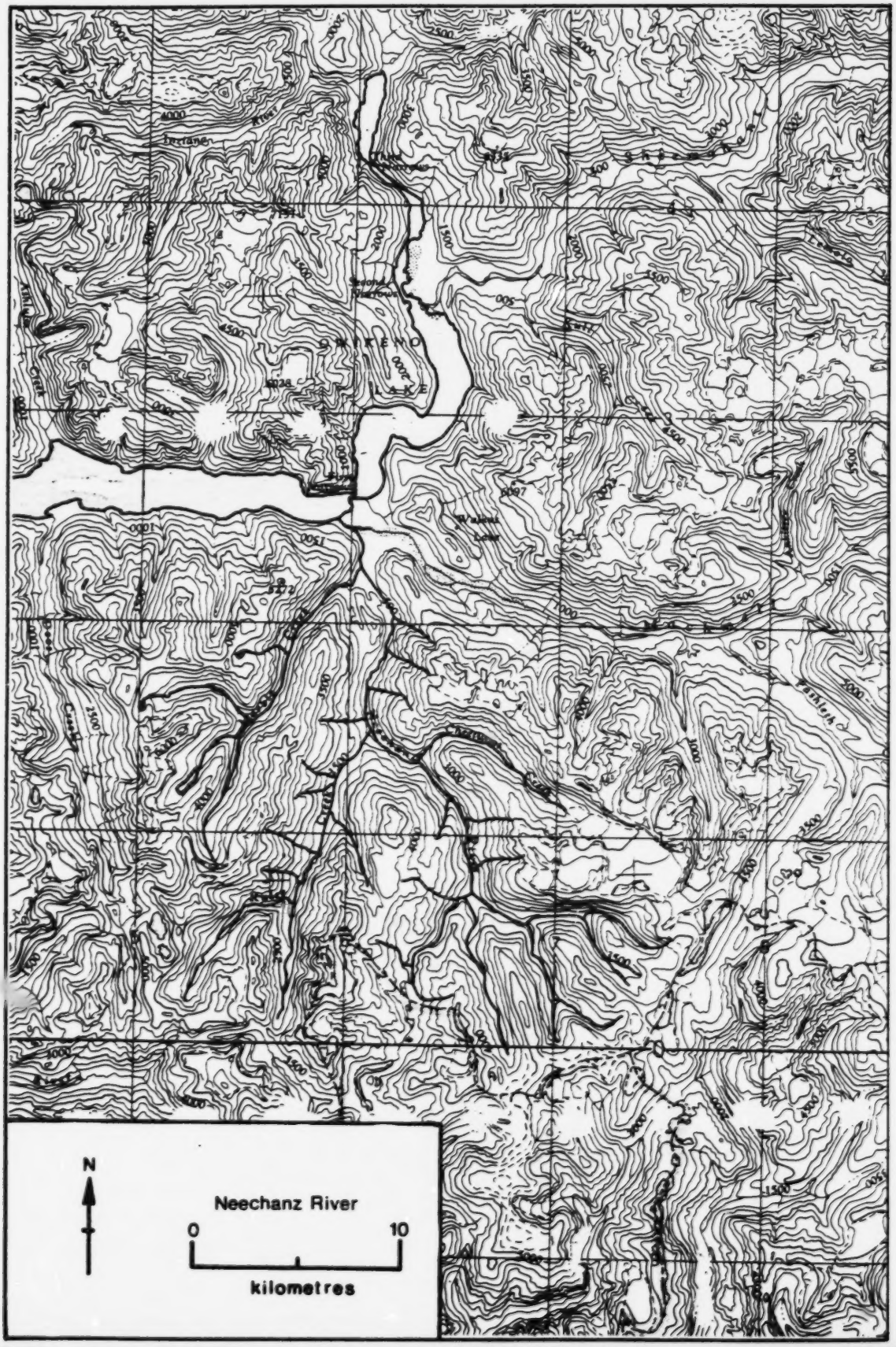
GENERAL REMARKS

- 1965. The channel was impassable throughout the spawning season due to extremely low flow conditions.
- 1975. Flooding in early November.
- 1979. Logging commenced in the watershed.

ESCAPEMENT RECORD FOR MILTON RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			75	75	75	
48			75	750	75	
49			75	1500	3500	
50			75	750	750	
51			200	1500	1500	
52			400	1500	750	
53			25	25		
54				100		
55				75	400	
56				750		
57			N/O	N/O	N/O	
58			N/O	N/O	200	
59				N/O		
60				25	750	
61				25	25	
62				200	1500	
63			25	75	25	
64			75	200	7500	
65			N/O	N/O	N/O	
66			75	25	35000	
67			25	N/O	N/O	
68			200	25	15000	
69			25	25	N/O	
70				75	15000	
71			N/O	35	400	
72			400	1500	7500	
73			50	100	200	
74			75	50	2250	
75			N/O	25	250	
76			N/O	25	1500	
77			50	90	N/O	
78			200	N/O	4000	
79			100	N/O	100	
80			N/O	N/O	7000	
81						
82						
83						
84						
85						
TIMING						
ARRIVE			SEPT	AUG	AUG	
START			SEPT	AUG	AUG	
PEAK			OCT	SEPT	E. SEPT	
END			NOV	OCT	L. SEPT	

REMARKS


N
Neechanz River
0
10
kilometres

NAME OF STREAM NEECHANZ RIVER (Nookins River)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows N. into Machmell R., Rge. 2, Coast Dist.

POSITION 51 126 NW

LENGTH 6.5 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Passable cascades at 4.5 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	to 6.5 km
CHINOOK	to 6.5 km
COHO	to 6.5 km
CHUM	to 3.5 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 3.5 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS

The principal spawning grounds are in the vicinity of the Marble Creek confluence.
- 1962. Flooding in late September and mid-November.
- 1975. Extensive siltation in fall months.

ESCAPEMENT RECORD FOR NEECHANZ RIVER (Nookins River)

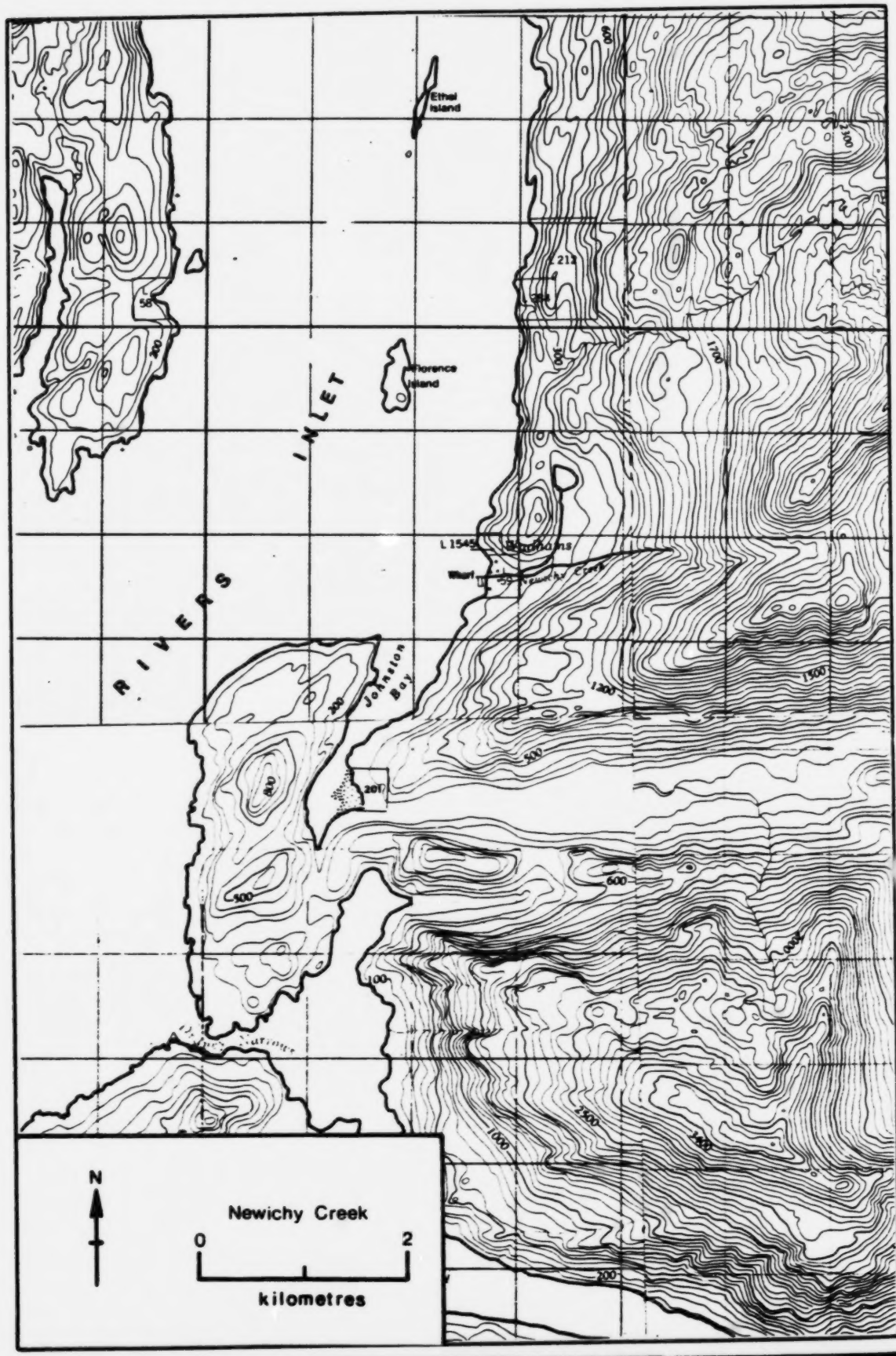
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	NO	RECORD				
48	750					
49	7500					
50	11000					
51	15000					
52	45000					
53	7500					
54	2000					
55	3500					
56	7500					
57	7500					
58	7500	75	N/O			
59	7500	UNK	UNK			
60	7500	UNK	UNK			
61	7500	UNK	UNK	UNK	UNK	
62	15000	UNK	UNK		UNK	
63	35000	UNK	UNK		N/O	
64	15000	N/O	UNK	N/O	N/O	
65	7500	400	N/O	N/O	N/O	
66	15000	25	N/O	N/O	N/O	
67	7500	25	UNK		N/O	
68	35000	25	N/O			
69	3500	400	25			
70	15000	75	400			
71	4000	N/O	N/O			
72	3000	25	N/O			
73	50000	50	500			
74	45000	100	400		750	
75	45000	N/O	N/O		N/O	
76	25000	20	N/O		200	
77	8000	40	30			
78	18000	UNK	200	UNK	500	
79	42500	N/O	100	N/O	N/O	
80	32500	N/O	UNK	N/O	N/O	
81						
82						
83						
84						
85						

TIMING

ARRIVE	AUG	AUG	SEPT			
START	L. AUG	AUG	OCT			
PEAK	M. SEPT	SEPT	L. OCT			
END	L. OCT	L. SEPT	DEC			

REMARKS

There are steelhead present in this river.


Ethel Island
Florence Island
RIVERS INLET
Johnston Bay
Newichy Creek
N
0
2
kilometres

NAME OF STREAM NEWICHY CREEK (Wadhams Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into Rivers Inlet at Wadhams, Rge. 2, Coast Dist.

POSITION 51 127 NW

LENGTH 0.5 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ CCARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 0.5 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

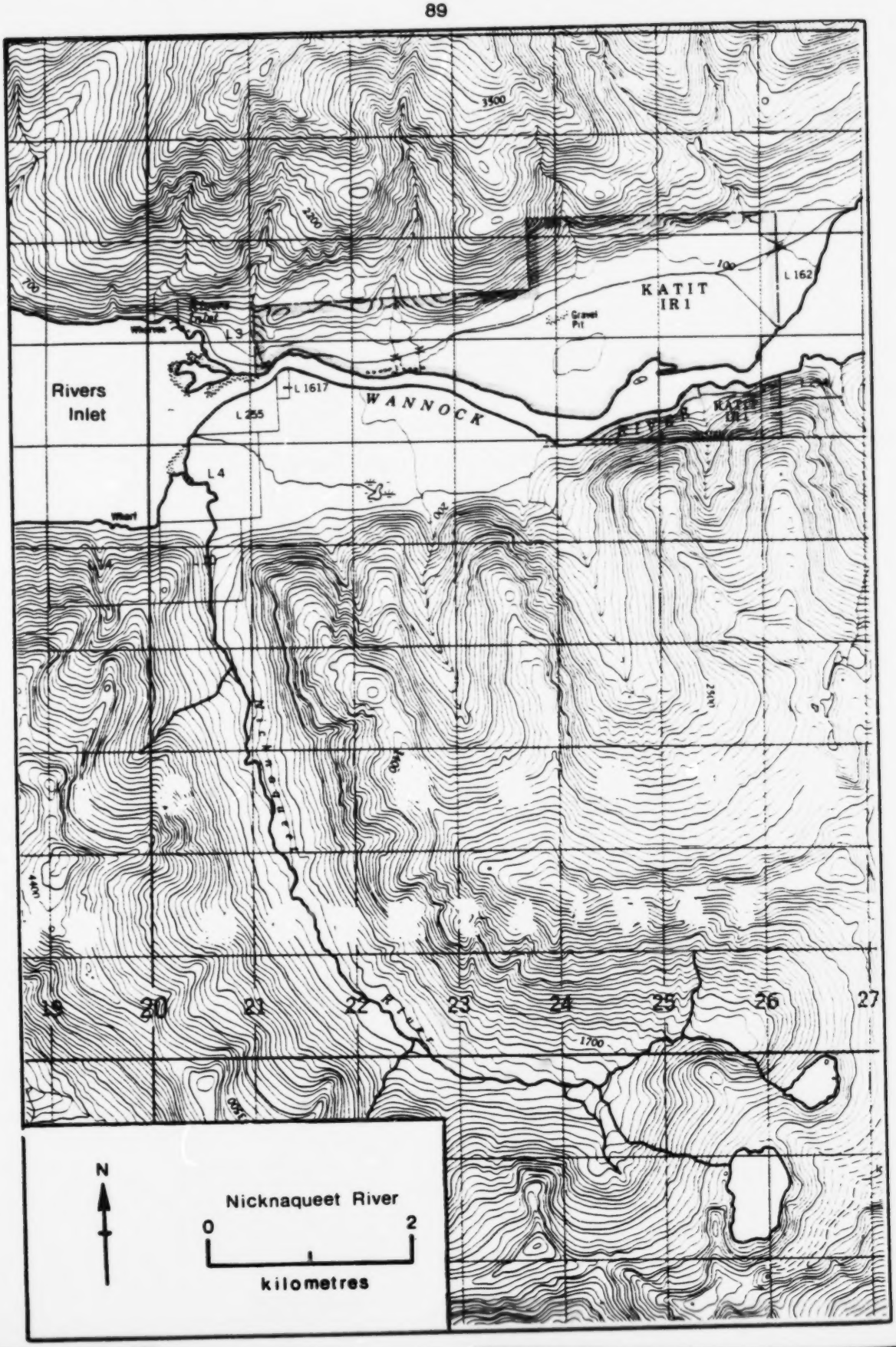
ESCAPEMENT RECORD FOR NEWICHY CREEK (Wadhams Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49			NO RECORD	PRIOR TO	1956	
50						
51						
52						
53						
54						
55						
56					1000	
57					N/O	
58					200	
59					N/O	
60						
61						
62						
63						
64			NO RECORD	AFTER 1959		
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START						
PEAK						
END						

REMARKS


KATIT
IR1
Rivers
Inlet
L 1617
L 255
L 4
L 3
L 162
WANNOCK
RIVER
Gravel
Pit
19
20
21
22
23
24
25
26
27
N
Nicknaqueet River
0
2
kilometres

NAME OF STREAM NICKNAQUEET RIVER (Sawmill Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows N. into head of Rivers Inlet, Rge. 2, Coast Dist.

POSITION 51 127 NE

LENGTH 2 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Impassable falls at 2.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to falls
CHUM	to falls
PINK (ODD YEAR)	to falls
PINK (EVEN YEAR)	to falls
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

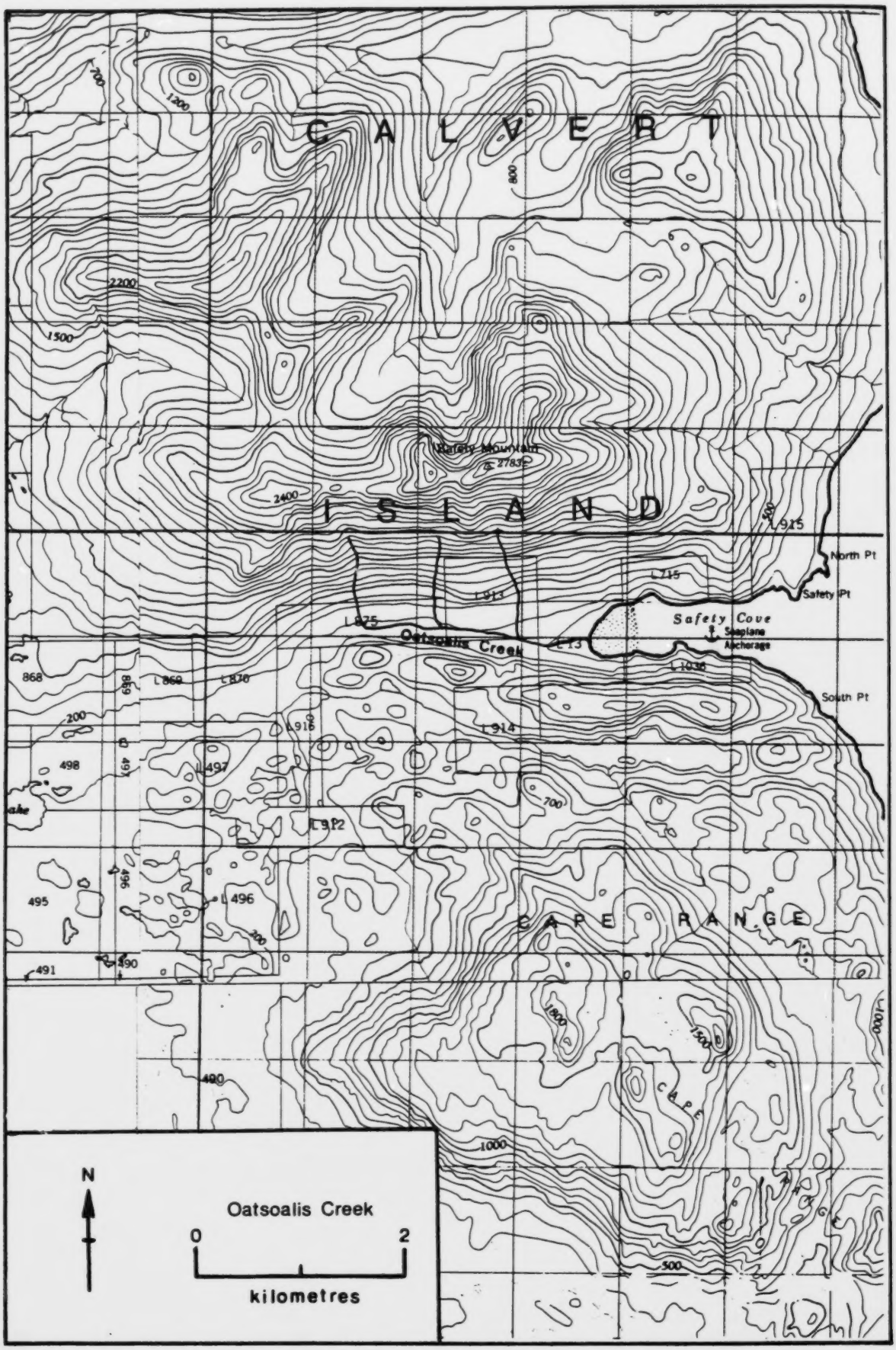
GENERAL REMARKS

- 1979. Logging bridge constructed immediately below the falls. Removal of a log jam resulted in rechannelization and loss of 200 spawning pink salmon.

ESCAPEMENT RECORD FOR NICKNAQUEET RIVER (Sawmill River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947					3500	
48					750	
49					3500	
50					3500	
51					3500	
52					3500	
53					3500	
54					300	
55				NO RECORD		
56				400	1500	
57					200	
58				75	200	
59				75	200	
60				75	25	
61				25	25	
62				25	25	
63				75	75	
64			25	25	75	
65			N/O	N/O	N/O	
66			N/O	N/O	75	
67			N/O	N/O	25	
68			N/O	75	25	
69				75	N/O	
70			N/O	25	200	
71			N/O	N/O	40	
72			N/O	200	400	
73			25	200	N/O	
74			25	400	750	
75			N/O	N/O	200	
76			NOT	INSPECTED		
77			N/O	N/O	100	
78			N/O		6000	
79			N/O		550	
80			N/O		7500	
81						
82						
83						
84						
85						
TIMING						
ARRIVE			OCT	SEPT	AUG	
START			OCT	OCT	AUG	
PEAK			OCT	OCT	L. AUG	
END			NOV	NOV	SEPT	

REMARKS


C A L V E R T
I S L A N D
Safety Mountain
2783
North Pt
Safety Pt
Safety Cove
Seaplane
Anchorage
Oatsoalis Creek
South Pt
C A P E R A N G E
N
Oatsoalis Creek
0
2
kilometres

NAME OF STREAM OATSOALIS CREEK

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows E. into Safety Cove, Calvert I., Rge. 2, Coast Dist.

POSITION 51 127 NW

LENGTH 1.0 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 1.0 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

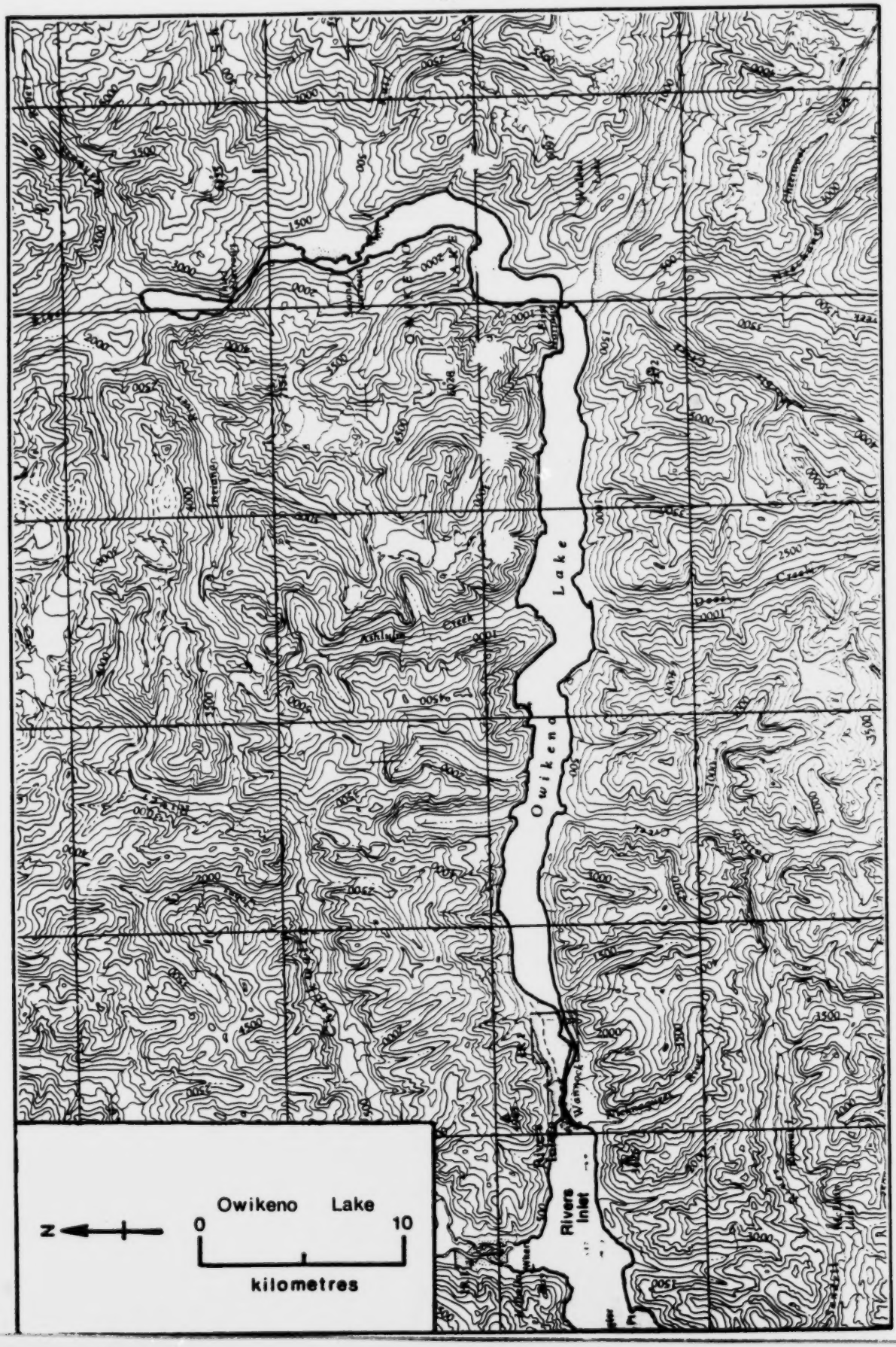
- 1976. Low water levels interfered with spawning.

ESCAPEMENT RECORD FOR OATSOALIS CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51			NO RECORD	PRIOR TO	1976	
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76					2000	
77				NO RECORD		
78					100	
79					N/O	
80			N/O		3000	
81						
82						
83						
84						
85						

TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS


Owikeno Lake
Rivers Inlet
N
Owikeno Lake
0
10
kilometres

NAME OF STREAM OWIKENO LAKE (Cheo Flats)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH At head of Rivers Inlet, Rge. 2, Coast Dist.

POSITION 51 126 NW

LENGTH 56 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

- 1962. Lake level extremely variable in October and November.
- 1969. Water levels fluctuate as much as 7 m during a given year. Third most productive producer of sockeye salmon in North America. (Narver, 1969)
Heavily silted with glacial run-off.

REFERNCES

Hilton, H.T., E.A.R. Ball, and D.W. Jenkinson. 1964. The age, sex and size composition of sockeye in the catch and escapement at Rivers Inlet in 1964. Fish. Res. Bd. Canada, Manuscript Report 772.

Hilton, H.T., and D.W. Jenkinson. 1965. The age, sex and size composition of sockeye in the catch and escapement at Rivers Inlet in 1965. Fish. Res. Bd. Canada Manuscript Report.

Bilton, H.T., E.A.R. Ball, and D.W. Jenkinson. 1964. The age, sex and size composition of sockeye in the catch and escapement at Rivers Inlet in 1963. Fish. Res. Bd. Canada, Manuscript Report 772.

Bilton, H. T., and D.W. Jenkinson. 1965. The age, sex and size composition of sockeye in the catch and escapement at Rivers Inlet in 1964. Fish. Res. Bd. Canada, Manuscript Report 818.

Bilton, H.T., and D.W. Jenkinson. 1966. The age, sex and size composition of sockeye in the catch and escapement at Rivers Inlet in 1965. Fish. Res. Bd. Canada, Manuscript Report.

Bilton, H. T., D.W. Jenkinson, and C.Gould. 1967. The age, sex and size composition of sockeye in the catch and escapement at Rivers Inlet in 1966. Fish. Res. Bd. Canada, Manuscript Report.

Chernoff, B.W., 1971. Behavior of underyearling sockeye salmon related to limnetic zooplankton in Owikeno Lake, British Columbia. Dept. of Fish. and Oceans Tech. Rpt. 1971-4.

Foskett, D.R. 1958. The Rivers Inlet Sockeye Salmon. J. Fish. Res. Bd. Canada 15(5): 867-889.

Narver, D.W. and B.C. Anderson. Primary production and associated measurements in Babine Lake area in 1966-67 and in Owikeno Lake in 1967. Nanaimo, Fish. Res. Bd. of Canada.

Narver, D.W. 1969. Productivity of Owikeno Lake, British Columbia. J. Fish. Res. Bd. Canada, 26 (5): 1363.

Ruggles, C. 1965. Owikeno Lake juvenile sockeye studies 1960-63. Dept. of Fish. and Oceans, Tech. Rpt. 1965-1.

Ruggles, C.P. 1965. Juvenile sockeye studies in Owikeno Lake, British Columbia. Can. Fish. Cult. (36).

Wood, F.E.A., D.C. Schutz, and J.D.C. Holland. 1970. Physical and biological data to 1968 from the Rivers Inlet sockeye spawning areas. MS Dept. of Fish. and Oceans, Man. Rpt. 1970-1

Wood, F.E.A., and D.C. Schutz, 1970. Tow-net catches of juvenile sockeye salmon in Owikeno Lake 1960-1968. Dept. of Fish. and Oceans, Man. Rpt. 1970-2.

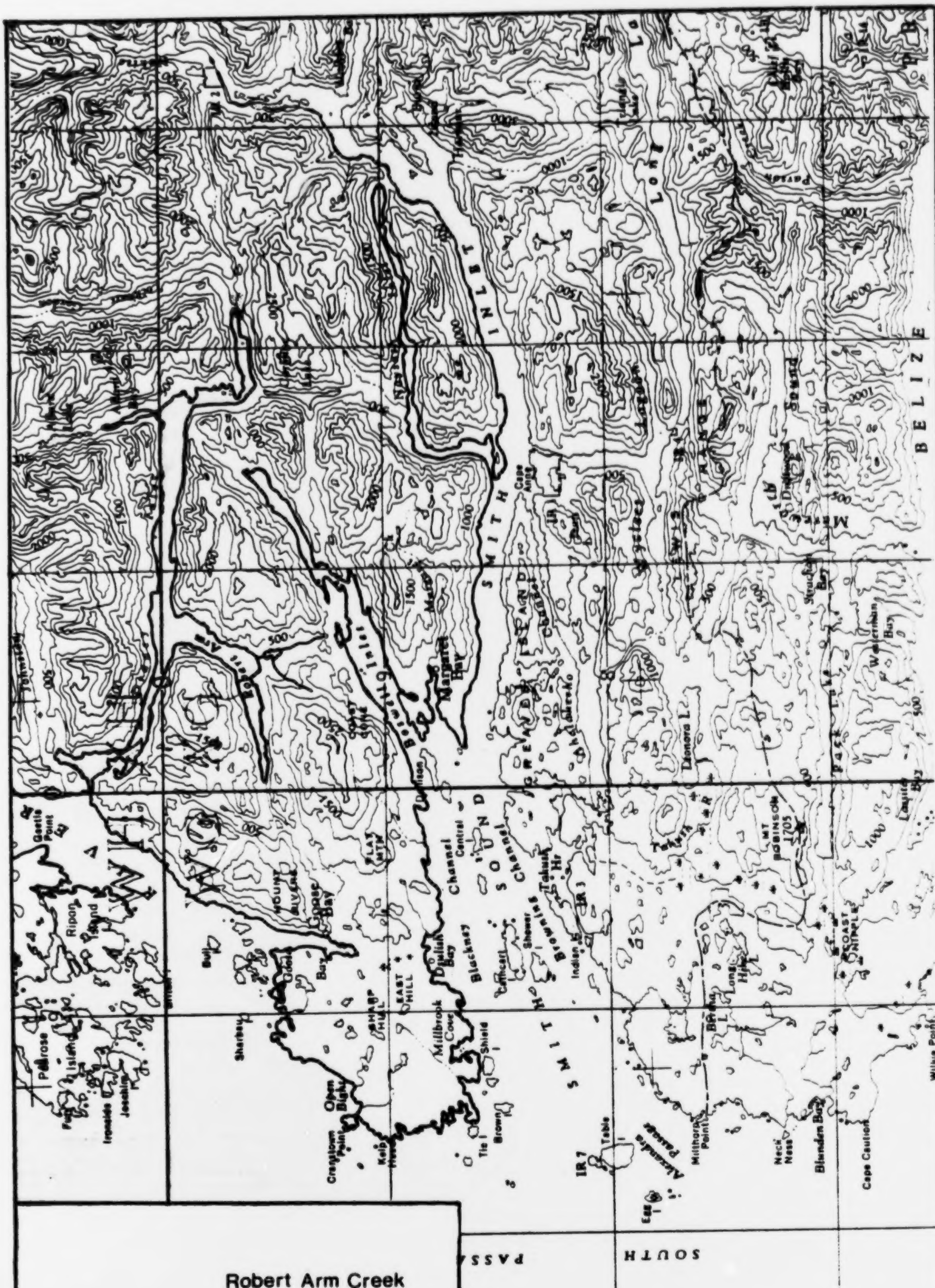
ESCAPEMENT RECORD FOR OWIKENO LAKE (Tzeo Flats, Cheo Flats)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50	NO	RECORD PRIOR	TO 1959			
51						
52						
53						
54						
55						
56						
57						
58						
59	3500	2000				
60	N/O					
61	200					
62	1500					
63	1500					
64	15000					
65	N/O					
66	3500					
67	15000					
68	35000					
69	3500					
70	NO RECORD					
71	NO RECORD					
72	4000					
73	10000					
74	8000		N/O			
75	102500					
76	20000					
77	10000		300			
78	5000		N/O			
79		NO REPORT				
80	25000					
81						
82						
83						
84						
85						

TIMING						
ARRIVE	AUG					
START	SEPT					
PEAK	E. OCT					
END	L. OCT					

REMARKS

1959. Coho were noted between Tzeo and Inziana Rivers in October..
1959-1969. Escapements enumerate salmon on the lakeshore and at 3rd narrows.
1972-1978. Escapements enumerate salmon on the lakeshore, at 2nd narrows and 3rd narrows, and in Whiskey Creek and Sunday Creek.


SMITH INLET
SMITH SOUND
BELIZE
QUEEN
CHARLOTTE
SOUTH
Robert Arm Creek
N
0
10
kilometres

NAME OF STREAM (Robert Arm Creek, West Arm Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows N. into Robert Arm, Draney Inlet, Rge. 2, Coast Dist

POSITION 51 127 SE

LENGTH _____ km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

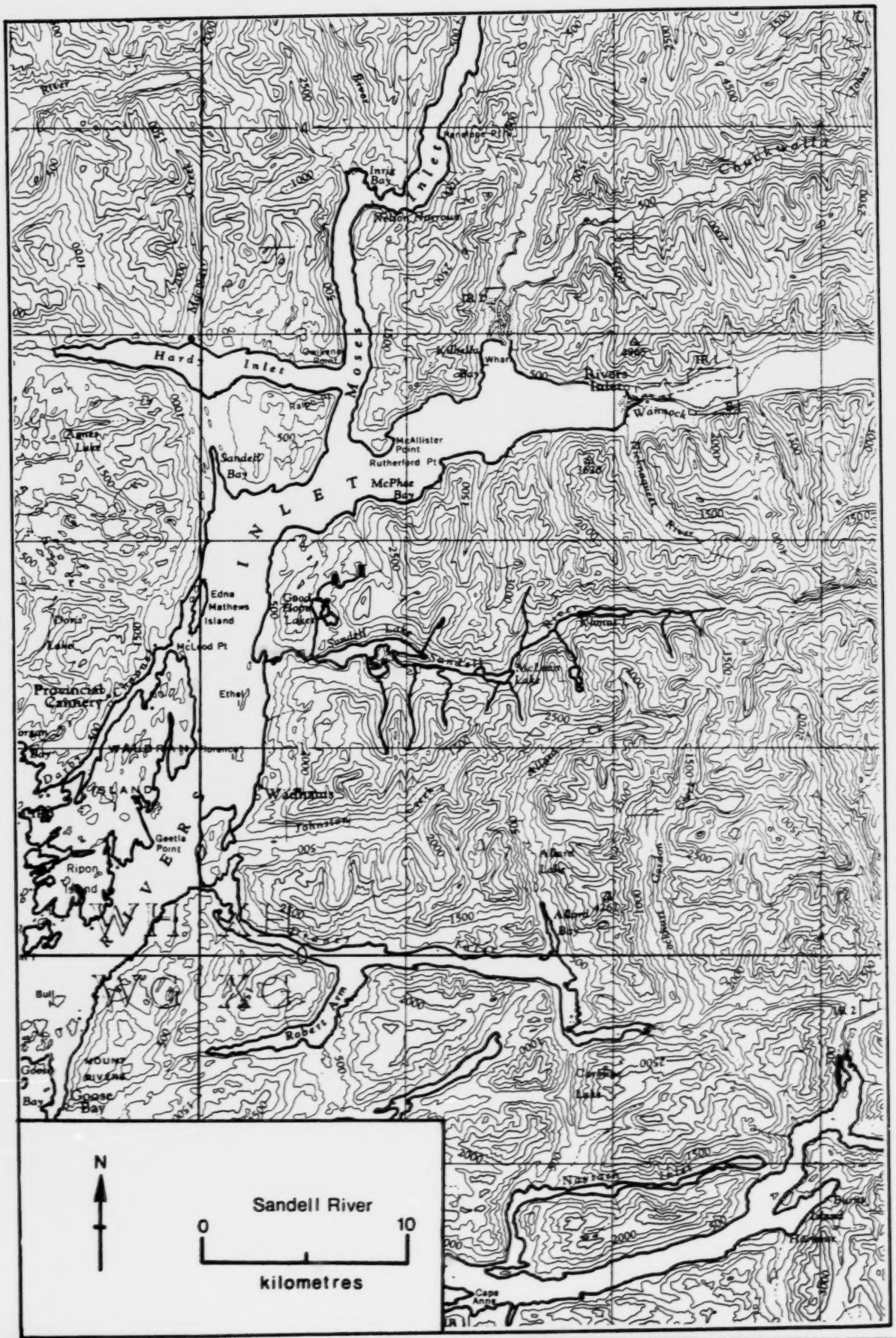
- 1979. Spawning grounds extend to 100 m.

ESCAPEMENT RECORD FOR _____ (Robert Arm Creek, West Arm Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS _____

1979. Coho fry present.


Hardy Inlet
Moses Inlet
Rivers Inlet
McAllister Point
Rutherford Pt
McPhee Bay
Sandell Bay
Edna Mathews Island
Good Hope Lakes
McLeod Pt
Provincial Cannery
Ethel
Wadhams
Johnstone
Geetla Point
Ripon Island
Robert Arm
Goose Bay
Bull Kelp
Allard Lake
Allard Bay
Clarke Lake
Burke Channel
Cape Ange
Chatwalla
Wannock
Kilbella
Whar
Inrig Bay
Kelbok Narrows
Aandeeps
Owikeno Point
Dawes Lake
Zamer Lake
Sandell Lake
McLean Lake
Richmquatt River
Kimsquit
Gardom
Nascall
Nascall Lakes
Hanson
N
Sandell River
0
10
kilometres

NAME OF STREAM SANDELL RIVER (Tzeeiskay Creek, Sandell Bay Ck)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into Rivers Inlet, Rge. 2, Coast Dist.

POSITION 51 127 NW

LENGTH 0.5 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 0.5 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

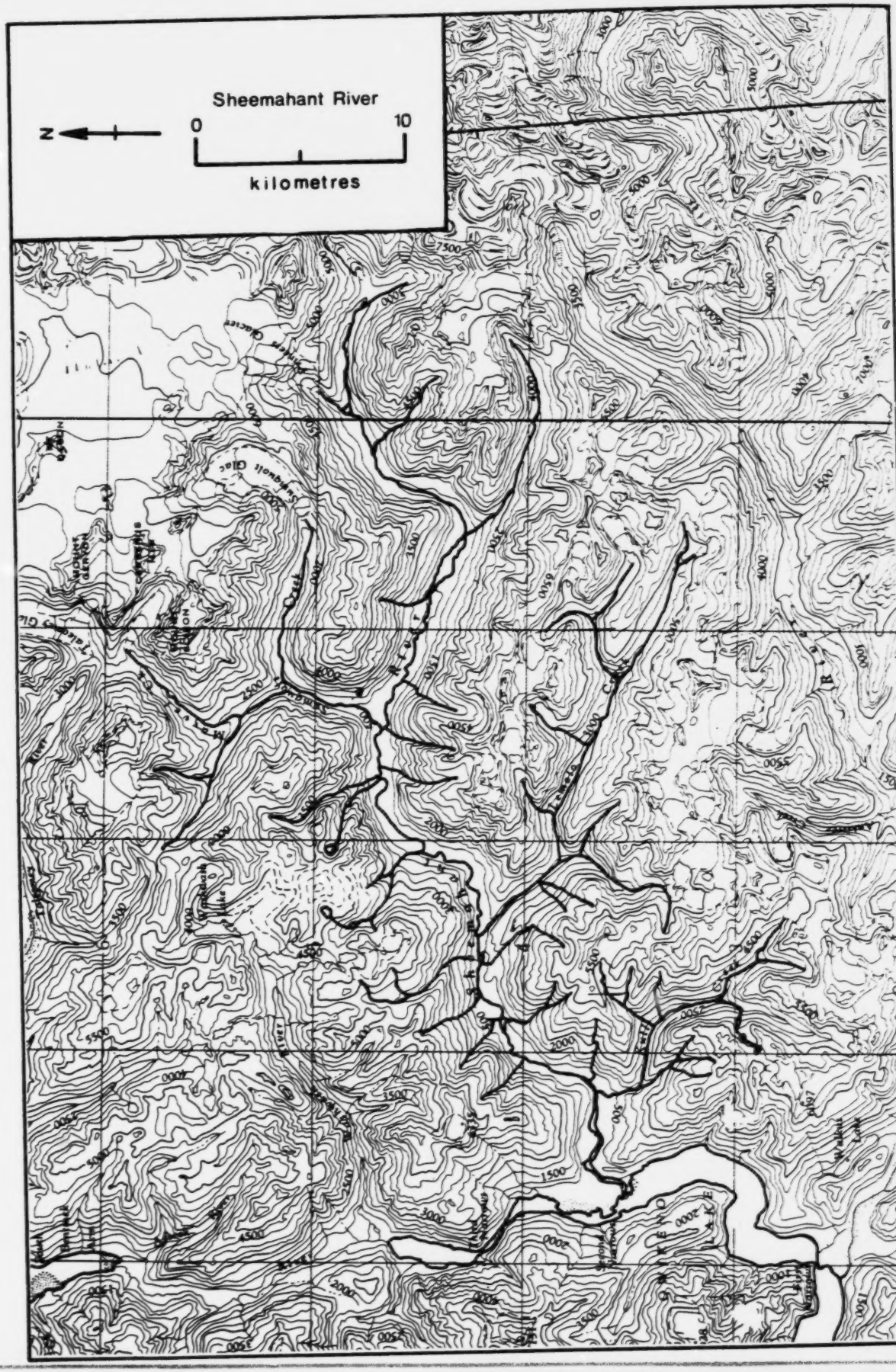
GENERAL REMARKS

- 1964. Small stream with very limited spawning area.

ESCAPEMENT RECORD FOR SANDELL RIVER (Tzeeiskay Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51			NO	RECORD PRIOR	TO 1964	
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64					3500	
65					NO RECORD	
66					3500	
67					N/O	
68					3500	
69					N/O	
70					N/O	
71					N/O	
72					NO RECORD	
73					NO RECORD	
74					NO RECORD	
75					NO RECORD	
76					3500	
77					NO RECORD	
78					NO RECORD	
79					N/O	
80						
81						
82						
83						
84						
85						
TIMING						
ARRIVE					AUG	
START					SEPT	
PEAK					SEPT	
END					OCT	

REMARKS


Sheemahant River
N
0
10
kilometres

NAME OF STREAM SHEEMAHANT RIVER

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into head of Owikeno L., Rge. 2, Coast Dist.

POSITION 51 126 NW

LENGTH 24 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Passable cascades at 20 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	to cascades
CHINOOK	throughout
COHO	throughout
CHUM	
PINK (ODD YEAR)	to cascades
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

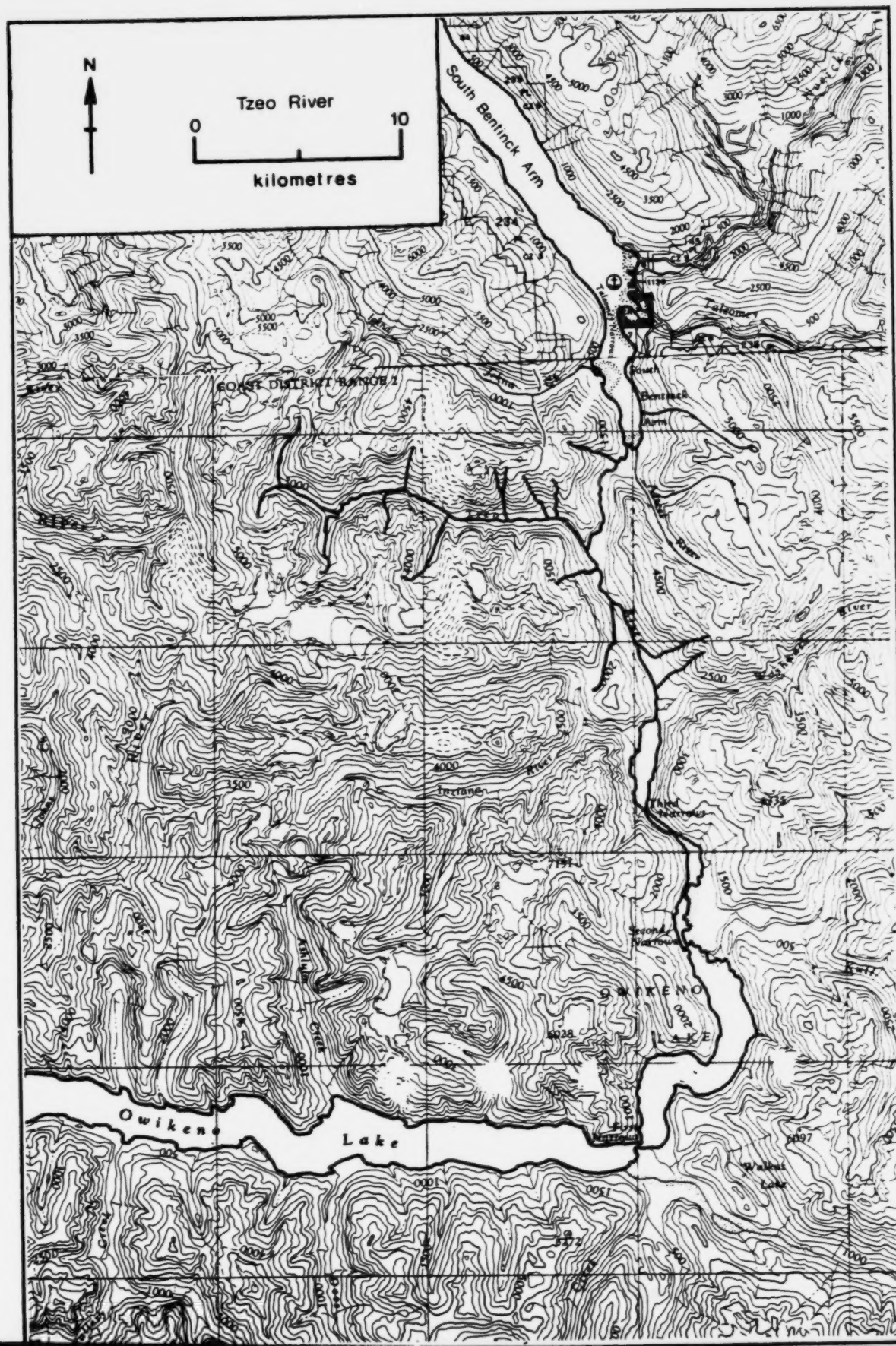
- 1962. Flooding in late September and mid-November.
- 1968. Considerable scouring of channel bed. Log jam at mouth prevents boat traffic into channel.
- 1976. Heavy silt load carried in summer months.
- 1977. Sheemahant River mainline road constructed. Some blasted rock slid into the channel and could not be safely removed. (Letter, A. J. Ionson, Fishery Officer, Rivers Inlet, to H. R. McNairnay, Area Supervisor, Kitimat Dist.)
- 1980. Flooding in December caused extensive damage throughout the system.

ESCAPEMENT RECORD FOR SHEEMAHANT RIVER AND FLATS (Shumahalt River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	NO RECORD					
48	UNK					
49	UNK					
50	57500		UNK			
51	45000		UNK			
52	75000					
53	35000	UNK				
54	UNK	UNK				
55	UNK					
56	35000					
57	35000		UNK			
58	UNK		UNK			
59	7500	UNK	UNK			
60	UNK	UNK	UNK			
61	35400	UNK	UNK			
62	42500	UNK	UNK			
63	7500					
64	110000	N/O	UNK			
65	15000	N/O	UNK			
66	50000		200			
67	135000	UNK	25			
68	75000	UNK				
69	75000	200	3500			
70	7500	UNK	3500			
71	6000	N/O	2000			
72	34000		1000			
73	250000	75	UNK			
74	137500	75	1500		UNK	
75	35000	N/O	N/O		N/O	
76	20000	N/O	50			
77	27500	25	N/O			
78	150000	100	800		UNK	
79	65000	N/O	200		N/O	
80	61000	N/O	2000	N/O	N/O	
81						
82						
83						
84						
85						
TIMING						
ARRIVE	SEPT	AUG	SEPT			
START	SEPT	AUG	SEPT			
PEAK	M. SEPT	L. AUG	L. OCT			
END	L. OCT	L. SEPT	DEC			

REMARKS

1956. 5000 coho were observed on flats in the narrows of the lake.


N
Tzeo River
0
10
kilometres
South Bentinck Arm
Tatlayoko
Bentinck Arm
Tatlayoko River
Tatlayoko Narrows
Second Narrows
OWIKENO LAKE
Owikeno Lake
Kwatna River
Kwatna
Kwatna Creek
Walker Lake
Creek
River

NAME OF STREAM TZEO RIVER (Cheo River)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows S. into head of Owikeno L., Rge. 2, Coast Dist.

POSITION 51 126 NW

LENGTH _____ km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT
Passable cascade at 6.5 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	in the vicinity of cascade at 6.5 km, some above.
CHINOOK	in the vicinity of cascade at 6.5 km, some above
COHO	in the vicinity of cascade at 6.5 km, some above
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	in the vicinity of cascade at 6.5 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

- 1962. Low flows in September, flooding at end of September and mid-November.
- 1964, 65, & 67. Streambed heavily silted in October. Considerable bank erosion occured with freshets. Logging and forest fires have contributed to the siltation problem.
- 1970. Scoured gravel from a channel in Washwash River has enhanced spawning grounds in lower Tzeo River.

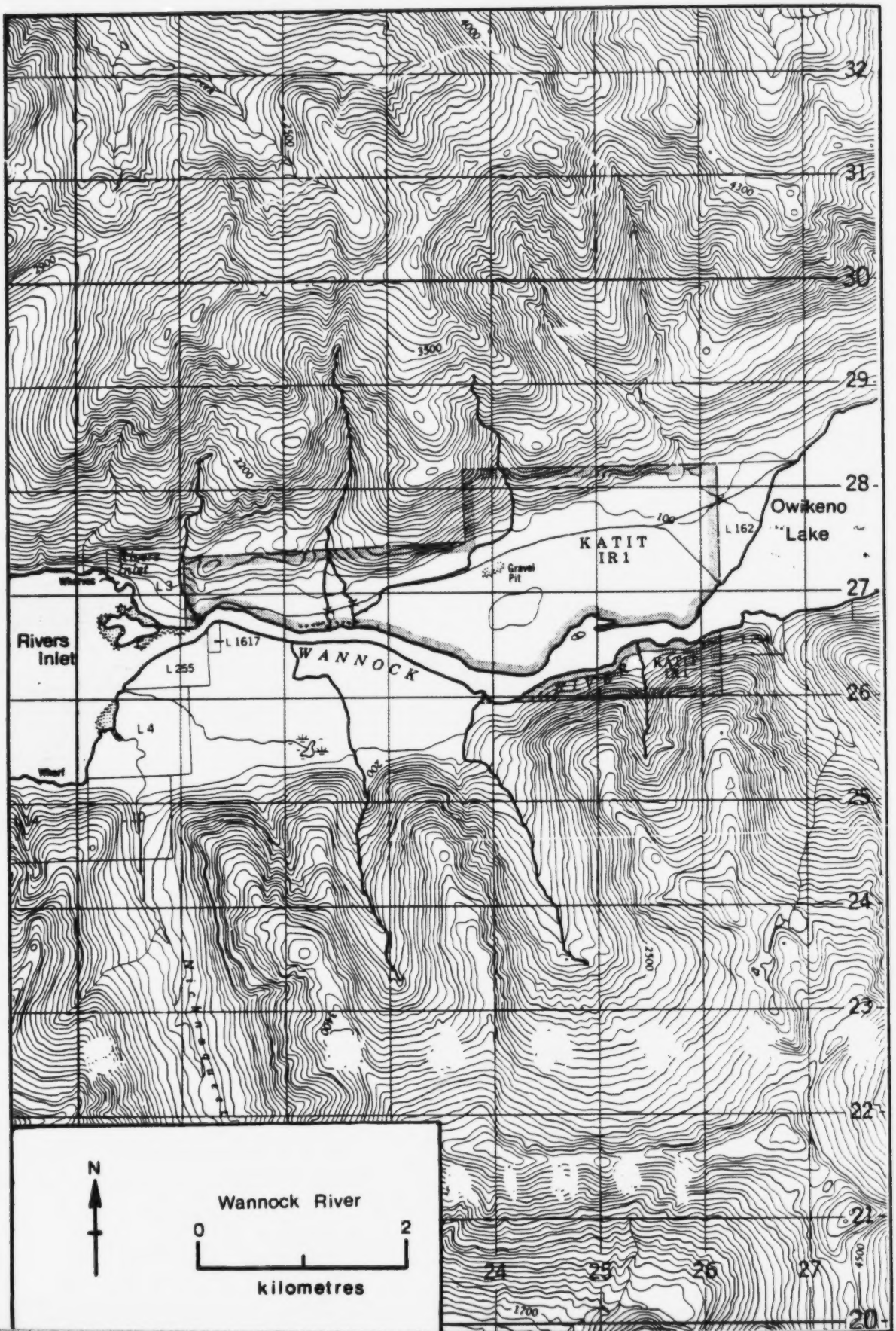
ESCAPEMENT RECORD FOR TZEO RIVER (Cheo River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947		NO RECORD				
48	UNK		UNK			
49	3500		25			
50	15000		UNK			
51	7500		UNK			
52	7500		UNK			
53	UNK					
54	2500					
55	400					
56	15000					
57	7500		75			
58	7500		400			
59	15000		UNK			
60	400	UNK				
61	3500	UNK	UNK			
62	3500	UNK	UNK			
63	35000	UNK	UNK			
64	15000	UNK	UNK			
65	1500	N/O	N/O			
66	7500					
67	3500	25	25			
68	15000	25	25			
69	750	25	200			
70	1500	25	25		25	
71	1100	N/O	UNK		N/O	
72	1500	N/O	UNK	N/O	N/O	
73	55000	13	UNK		N/O	
74	32500	N/O	UNK		N/O	
75	11000	50	N/O		N/O	
76	12000	N/O	N/O			
77	4000	50	N/O			
78	10000	50	N/O			
79	2000	N/O				
80	4000	N/O				
81						
82						
83						
84						
85						

TIMING

ARRIVE	L. AUG	AUG				
START	SEPT	AUG				
PEAK	M. SEPT	E. SEPT				
END	M. OCT	M. SEPT				

REMARKS


Rivers Inlet
L 1617
L 255
L 3
L 4
WANNOCK
KATIT IR1
Gravel Pit
L 162
Owikeno Lake
Wharf
Wharf
N
Wannock River
0
2
kilometres

NAME OF STREAM WANNOCK RIVER

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows W. into head of Rivers Inlet, Rge. 2, Coast Dist.

POSITION 51 127 NW

LENGTH 6.5 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

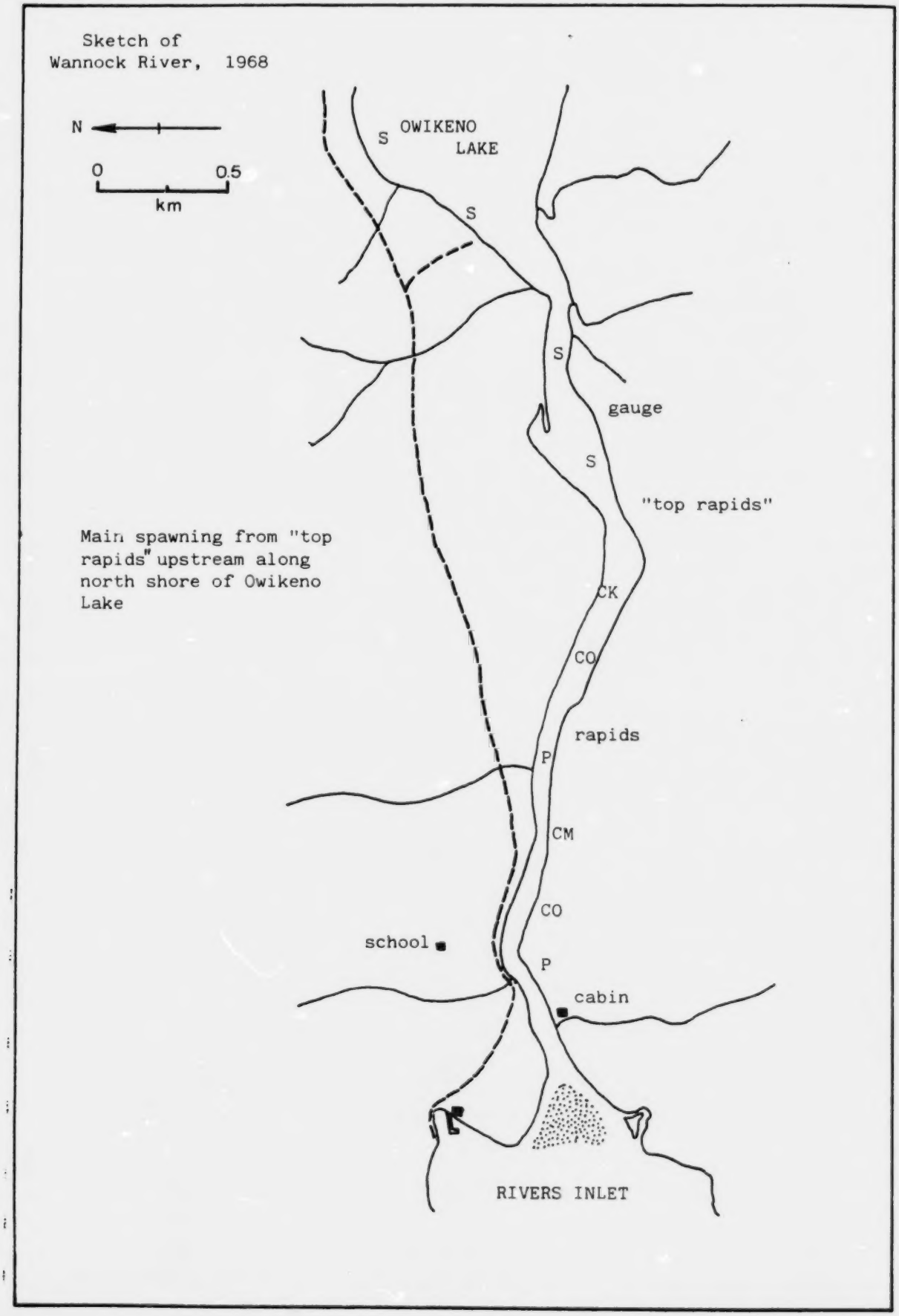
SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	on upper flats
CHINOOK	to Owikeno Lake
COHO	on upper flats
CHUM	in middle reaches
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

- 1962. Extensive flooding at end of January but no excessive scouring. Sockeye are very small in this system.
- 1979. Sport fishing pressure and chinook escapement to the spawning grounds are closely correlated. Overfishing is depleting the run. (Letter, E. Sierer, Fishery Officer, Rivers Inlet, to D. C. Schutz, Chief, North Coast Division, dated 24 February 1979.)
- 1980. High mortality to eggs due to heavy flooding in December.


Sketch of
Wannock River, 1968
N
0
0.5
km
S
OWIKENO
LAKE
S
S
gauge
S
"top rapids"
Main spawning from "top rapids" upstream along north shore of Owikeno Lake
CK
CO
rapids
P
CM
CO
school
P
cabin
RIVERS INLET

ESCAPEMENT RECORD FOR WANNOCK RIVER AND FLATS (Whannock River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947		NO	RECORD			
48	35000	750	1500	7500	3500	
49	35000	1500	3500	75000	7500	
50	75000	1500	3500	35000	3500	
51	35000	750	1500	35000	3500	
52	75000	1500	3500	7500	1500	
53	75000	1500	3500	35000	1500	
54	UNK	UNK	UNK	UNK	UNK	
55	3500	1500	3500	750	400	
56	35000	3500		15000		
57	35000	1500	UNK	15000	400	
58	75750	1500	N/O	15000	1500	
59	75000	UNK	UNK	UNK	UNK	
60	UNK	7500	UNK	UNK	N/O	
61	35000	750	750	3500		
62	100000	3500	1500	3500		
63	200000	7500	1500	15000		
64	75000	7500	UNK	35000		
65	75000	3500	UNK	UNK	UNK	
66	35000	1500	UNK	3500	UNK	
67	125000	1500	UNK	7500	UNK	
68	75000	750	UNK	15000	UNK	
69	100000	750	UNK	7500	N/O	
70	35000	1500	400	7500	200	
71	60000	1500	1200	1800	70	
72	80000	600	UNK	8000	1500	
73	87500	1000	500	9000	90	
74	62500	5500	900	35000	3500	
75	87500	3000	N/O	8000	N/O	
76	87500	1500	500	1500	1500	
77	45000	1400	2500	2000	500	
78	20000	2000	1000	30000	1000	
79	35000	2000	500	10000	500	
80	27500	2000	2000	1500	750	
81						
82						
83						
84						
85						

TIMING						
ARRIVE	E. AUG	AUG	SEPT	L. SEPT	AUG	
START	SEPT	AUG	OCT	OCT	AUG	
PEAK	OCT	L. SEPT	NOV	L. OCT	M. AUG	
END	NOV	DEC	DEC	NOV	SEPT	

REMARKS

There are steelhead present in this river.

N
Washwash River
0
10
kilometres
SNOWSHOE MTN.
IROQUOIS RIDGE
MONGO MTR.
EMBER MTN.
OGRE MTN.
MT RIMMON
Talahmey River
Talahmey
South Benback Arm
Wachaugh Lake
Skeleton River
Second Waterfowl Lake
SKENO LAKE
Walleye Lake
Lewis Creek

NAME OF STREAM WASHWASH RIVER (Waukwash River)

CONSERVATION DISTRICT 7 STATISTICAL AREA 9

LOCATION OF MOUTH Flows SW into head of Owikeno L., Rge. 2, Coast Dist.

POSITION 51 126 NW

LENGTH 4.0 km WIDTH _____ m DRAINAGE _____ km^2

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m^2 SPAWNING AREA _____ m^2

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Impassable falls at 4.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	in mainstem
CHINOOK	
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

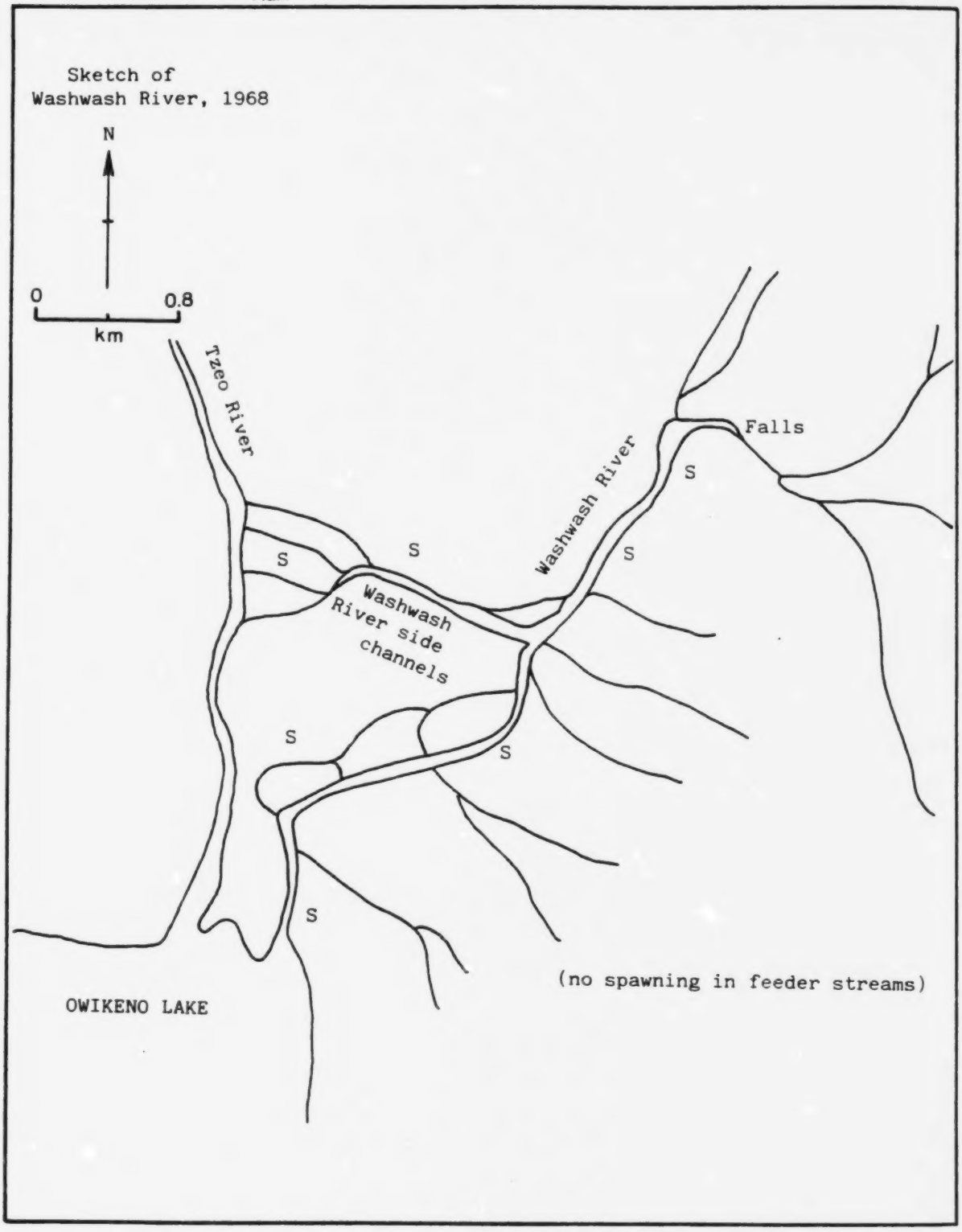
POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

- 1962. Flooding in late September and mid- November.
- 1963. Considerable over spawning with 120,000 spawners.
- 1966. Extensive erosion due to channel instability in the delta area.
- 1967. 80% of spawn destroyed in flash flooding.
- 1968. Heavy loss of adults and spawn due to channel instability in the delta area.
- 1971. A flood channel to Tzeo River now carries most of the flow. Due to resultant low flow in the mainstem, high spawn mortality is expected in that portion.
- 1973. Corrective blasting and rechannelization has restored normal flow to the mainstem and moderated flow in the flood channel. Subsequent reports indicate

GENERAL REMARKS (CONT.)

the remedial work was effective in stabalizing flow in both channels. - 1980. Washwash River has broken a new channel through to Tzeo River. Heavy loss of spawn is expected.



ESCAPEMENT RECORD FOR WASHWASH CREEK (Waukwaas Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	30000	25				
48	3500	400	750			
49	32500	200	1500			
50	97500	400				
51	55000	75	UNK			
52	100000	75	UNK			
53	100000	75	UNK			
54	500		1500			
55	5000	N/O	N/O			
56	7500	75	200			
57	35000	75	N/O			
58	75000	25	25			
59	15000	75	N/O			
60	3500	UNK				
61	15000	UNK				
62	75000	UNK	UNK			
63	125000	UNK	400			
64	75000	N/O	750			
65	7500		400			
66	35000		25			
67	125000		25			
68	100000		75			
69	3500		750			
70	3500	N/O	75			
71	10000	10	750			
72	22500	50	UNK			
73	200000	UNK	200			
74	75000	UNK	200			
75	42500	25	N/O	25	25	
76	20000	20	200			
77	35000	30	N/O			
78	65000	100			300	
79	15000	100			N/O	
80	13500	N/O			N/O	
81						
82						
83						
84						
85						

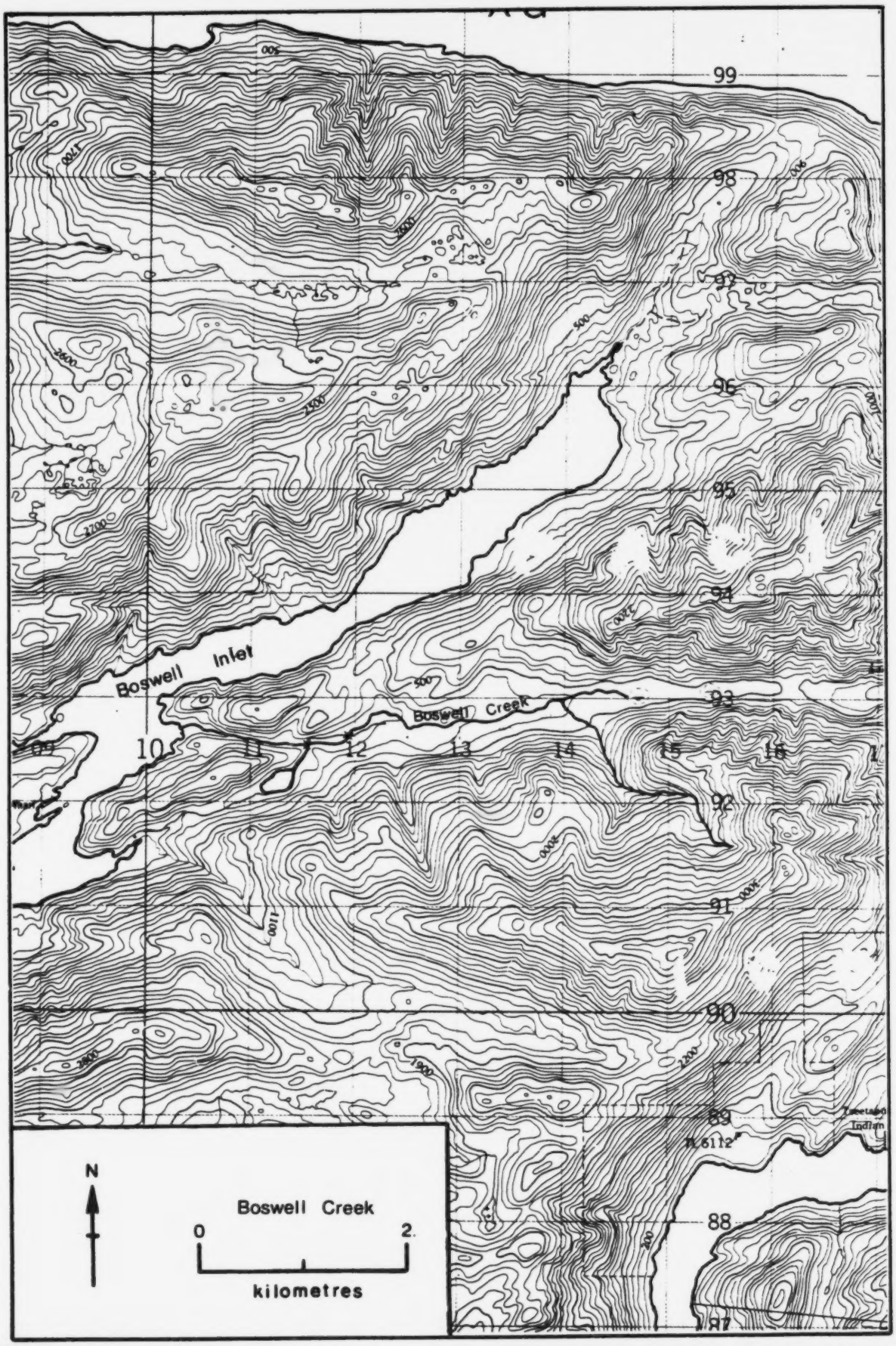
TIMING

ARRIVE	E. AUG	JULY	SEPT			
START	M. AUG	JULY	SEPT			
PEAK	L. SEPT	AUG	L. OCT			
END	L. OCT	SEPT	JAN			

REMARKS

STREAM DATA

AREA 10


Boswell Inlet
Boswell Creek
99
98
97
96
95
94
93
92
91
90
89
88
10
11
12
13
14
15
16
N
Boswell Creek
0
2
kilometres

NAME OF STREAM (Boswell Creek, Coho Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 10

LOCATION OF MOUTH Flows W. into Boswell Inlet, Rge. 2, Coast Dist.

POSITION 51 127 SW

LENGTH 1 km WIDTH m DRAINAGE km²

COMPOSITION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA m² SPAWNING AREA m²

DISCHARGE (m^3/s)

TEMPERATURE (°C)

BARRIERS OR POINTS OF DIFFICULT ASCENT

Passable cascades and log jam at 1.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to 1.0 km
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

Spawning grounds present from 2.0 km.

GENERAL REMARKS

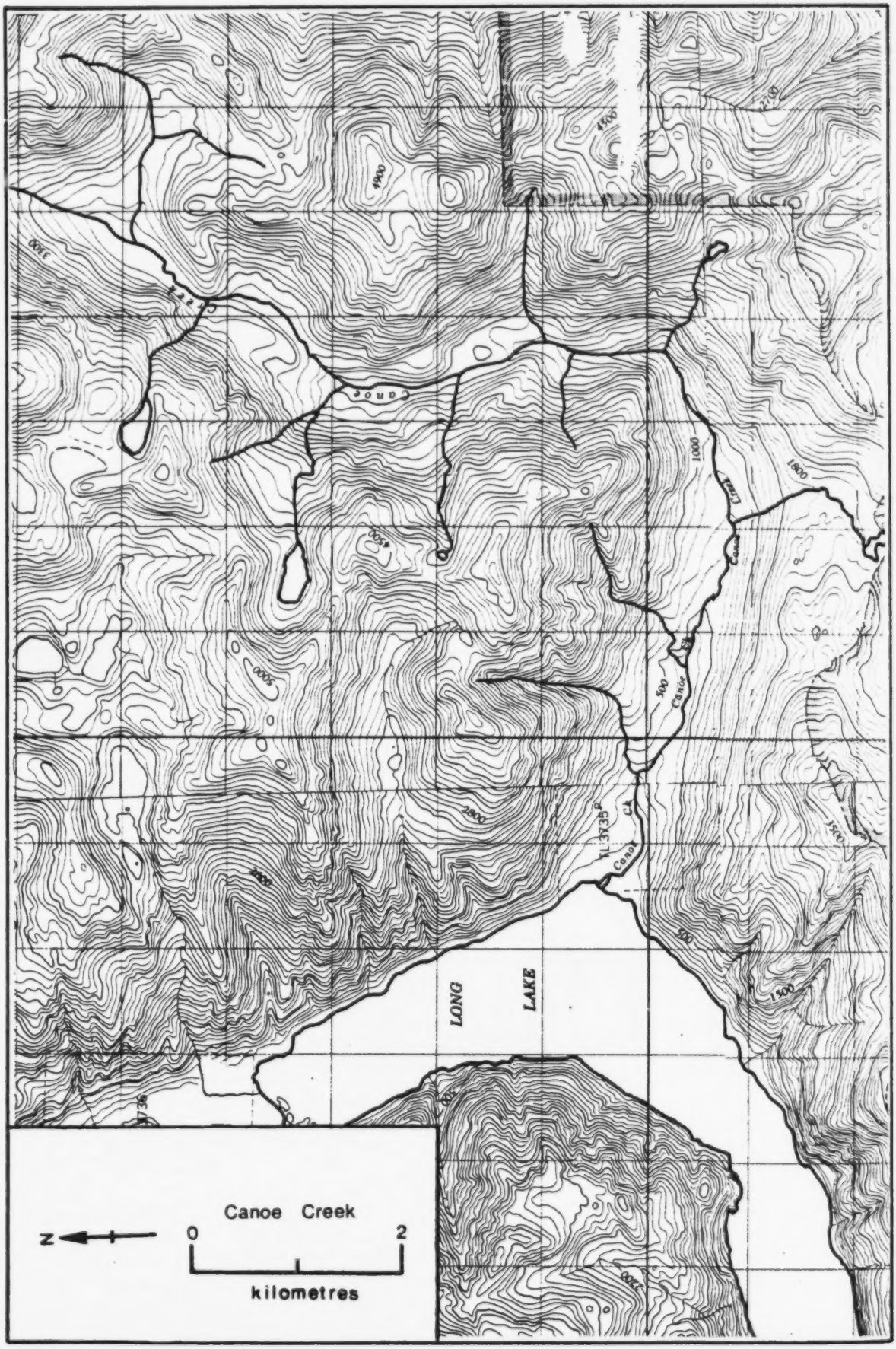
-1962. Major channel shift with November flood.

-1965. Extreme low flow during spawning season.

ESCAPEMENT RECORD FOR _____ (Boswell Creek, Coho Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49			NO	RECORD PRIOR	TO 1953	
50						
51						
52						
53			25		25	
54			300			
55			400			
56			200			
57			N/O			
58			75			
59			75		25	
60			N/O		N/O	
61			75			
62			75			
63			75			
64			200			
65			N/O			
66			N/O			
67			N/O			
68			N/O			
69			N/O			
70			N/O		N/O	
71			N/O		N/O	
72			N/O		N/O	
73			N/O			
74			N/O			
75			200			
76			75			
77			N/O			
78			N/O			
79			300			
80			N/O			
81						
82						
83						
84						
85						
TIMING						
ARRIVE			M. SEPT			
START			L. SEPT			
PEAK			OCT			
END			OCT			

REMARKS _____


LONG
LAKE
Canoe Creek
0
2
kilometres

NAME OF STREAM CANOE CREEK (Delebah River)

CONSERVATION DISTRICT 7 STATISTICAL AREA 10

LOCATION OF MOUTH Flows W. into Long L., Rge. 2, Coast Dist.

POSITION 51 127 SE

LENGTH _____ km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m^3/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

Passable cascades from 1.0 to 2.5 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	to 1.0 km
CHINOOK	
COHO	throughout to area immediately above cascades
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

- 1965. Low flow condition in August prevented early migration.
- 1973. Overspawning with 40,000 spawners.

ESCAPEMENT RECORD FOR CANOE CREEK (Delebah Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48	3500					
49	7500		3500			
50	15000		1500			
51	22500		1500			
52	25000		3500			
53	35000					
54	50000		300			
55	35000		750			
56	15000					
57	7500		N/O			
58	7500		25			
59	15000		200			
60	3500					
61	7500		3500			
62	35000		3500			
63	35000		1500			
64	15000		1500			
65	3500		750			
66	15000		N/O			
67	15000		25			
68	35000		75			
69	35000		400			
70	15000		75			
71	20000		200			
72	6500		N/O			
73	40000		150			
74	20000		200			
75	10000		N/O			
76	7000					
77	30000		N/O			
78	10000		N/O			
79	7000					
80	15000					
81						
82						
83						
84						
85						

TIMING

ARRIVE	SEPT		OCT			
START	M. SEPT		OCT			
PEAK	E. OCT		OCT			
END	M. NOV		DEC			

REMARKS

1979. An estimate based on the Docee River fence count.

1980. The Docee River fence count can be aportioned between Smokehouse and Canoe Creeks 70% and 30% respectively. Docee River fence count was 130,000 in 1980.

Docee River
N
0
2
kilometres
Smith Inlet
Cape Anne
WYCLESE INDIAN RESERVE
Wyclese Lagoon
Docee River
LAKE LONG
Wyclese Lagoon
78
77
76

NAME OF STREAM (Docee River, Goat Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 10

LOCATION OF MOUTH Flows NW from Long L., into Wyc.ees Lagoon, Smith Inlet, Rgc. 4, Coast Dist.

LENGTH 1.5 km WIDTH m POSITION 51 127 SE

COMPOSITION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

PERCENT GRADIENT	
0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA m^2 SPAWNING AREA m^2

DISCHARGE (m^3/s)

TEMPERATURE (°C)

BARRIERS OR POINTS OF DIFFICULT ASCENT

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	to 1.0 km and in lake outlet
COHO	
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS

- 1957. Logging operations commenced near the river.
- 1963. Logging debris accumulating on spawning grounds.
- 1974. Counting fence installed.
- 1975. Logging debris has caused serious deterioration of Long Lake spawning grounds.

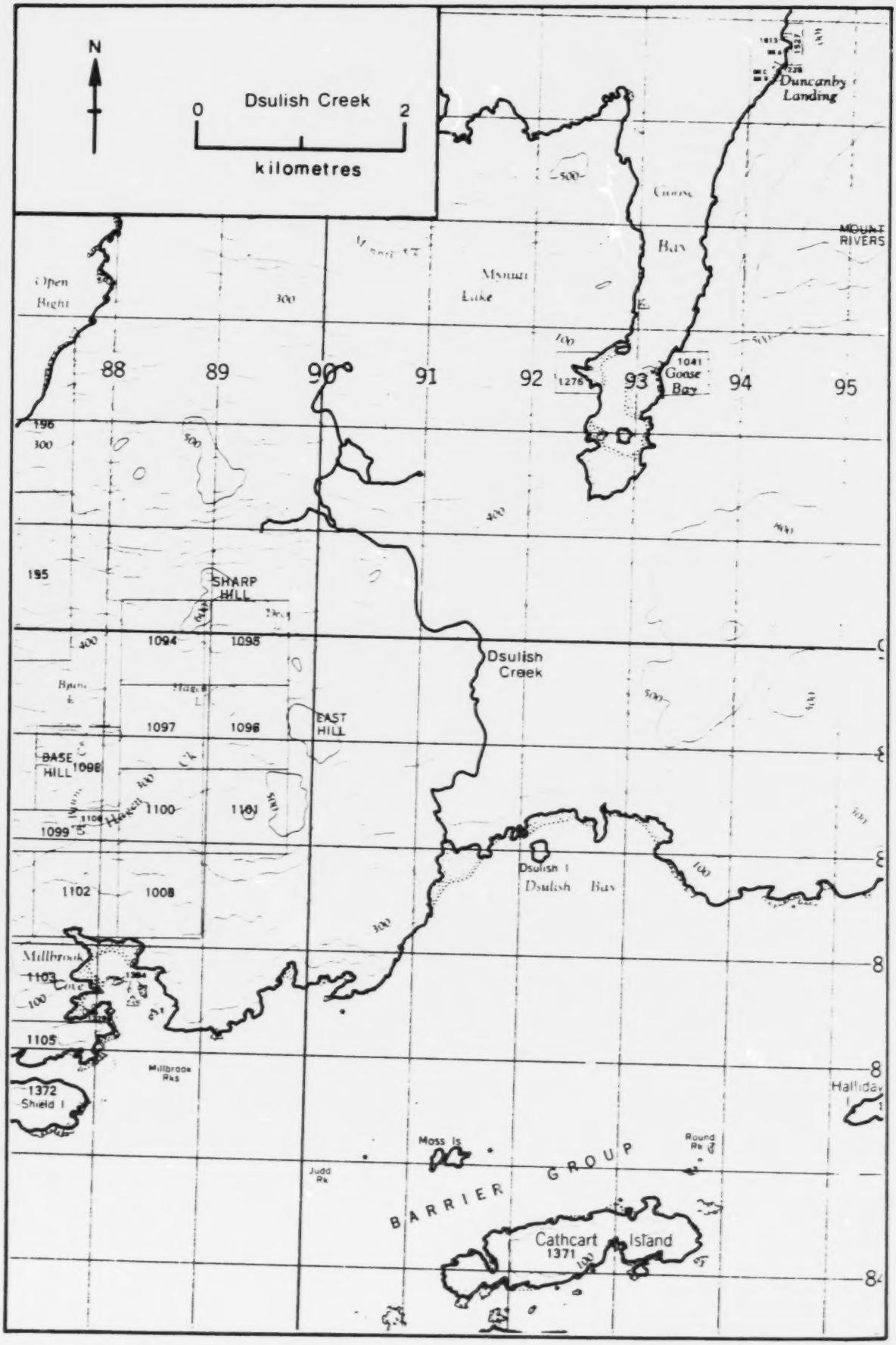
ESCAPEMENT RECORD FOR _____ (Docee River, Goat Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48		750				
49		NO	RECORD			
50		NO	RECORD			
51		400	400			
52		750	400			
53		3500	400			
54		3000				
55		1500				
56		1700				
57	75	3500				
58	75	1500				
59	75	750				
60	25	200	200			
61	25	1500	400			
62	75	400	200			
63	25	400	25			
64	200	400	400			
65	N/O	25	75			
66	N/O	750	75			
67	N/O	400	75			
68	200	200	75			
69	200	75	75			
70		200	UNK			
71		700	N/O			
72		800	UNK			
73		550	200			
74		1750	400			
75		900	N/O			
76		1000				
77		1000	N/O			
78		2000	N/O			
79		500	N/O			
80		1200	N/O			
81						
82						
83						
84						
85						
TIMING						
ARRIVE		AUG	SEPT			
START		SEPT	SEPT			
PEAK		E. OCT	L. OCT			
END		E. NOV	DEC			

REMARKS

1955. Count was taken on the flats of Long Lake.

1956. 1500 on the flats, 200 in river.


N
0
Dsulish Creek
2
kilometres
Duncanby Landing
Open Bight
Mount Luke
Bay
MOUNT RIVERS
88
89
90
91
92
93
94
95
1041
Goose Bay
1276
196
300
195
SHARP HILL
1094
1095
Dsulish Creek
1097
1096
EAST HILL
BASE HILL
1098
1100
1101
1099
1102
1008
Dsulish I
Dsulish Bay
Millbrook
1103
1105
Millbrook Rks
1372
Shield I
Moss Is
Round Rk
Judd Rk
BARRIER GROUP
Cathcart Island
1371
Hallida

NAME OF STREAM (Dsulish Creek)

CONSERVATION DISTRICT 7 STATISTICAL AREA 10

LOCATION OF MOUTH Flows S. into Dsulish Bay, Smith Sound, Rge. 2, Coast Dist.

POSITION 51 127 SW

LENGTH 3.0 km WIDTH _____ m DRAINAGE _____ km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

POINT GRADIENT	
.00 - 0.25	
.25 - 0.50	
.50 - 0.75	
.75 - 1.00	
> 1.00	

ACTUAL AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to 1.0 km
CHUM	
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

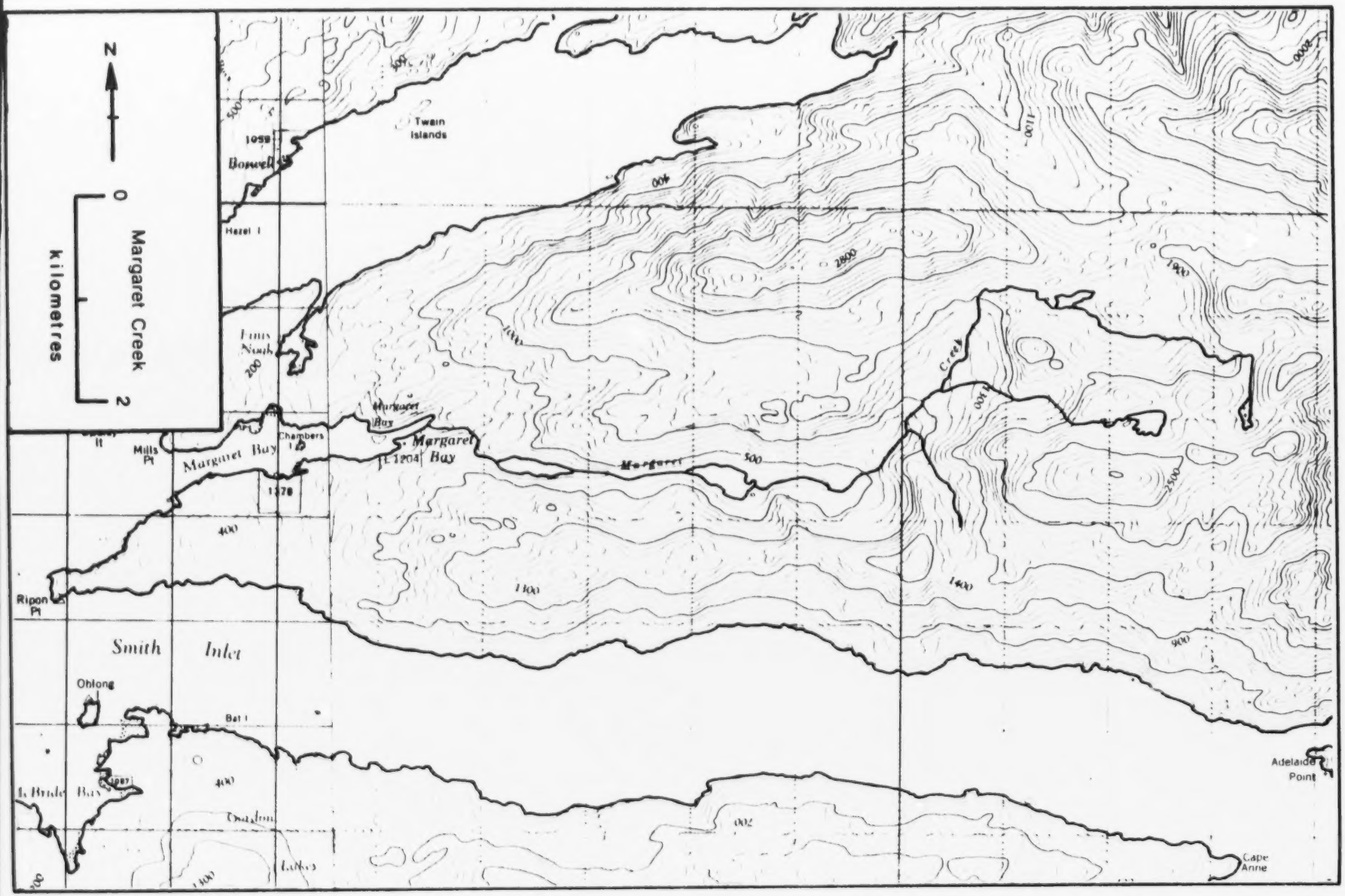
POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

ESCAPEMENT RECORD FOR _____ (Dsulish Creek, Dsuluth Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49			NO RECORDS	PRIOR TO	1955	
50						
51						
52						
53						
54						
55			400		75	
56			NO RECORD			
57			NO RECORD			
58			NO RECORD			
59			75			
60			75			
61			75			
62			75			
63			25			
64			UNK			
65			N/O			
66			N/O			
67			N/O			
68			N/O			
69			N/O			
70						
71			NO RECORD	FROM 1970	TO 1974	
72						
73						
74						
75			N/O			
76			NOT INSPECTED			
77			NO RECORD			
78			NOT INSPECTED			
79			NOT INSPECTED			
80			NOT INSPECTED			
81						
82						
83						
84						
85						
TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS _____


N
0
2
kilometres
Margaret Creek
Twain Islands
Boswell
Hazel I
Ennis Nook
Margaret Bay
Margaret Bay
Margaret Bay
Mills Pt
Chambers I
Ripon Pt
Smith Inlet
Oblong
Bell I
Adelaide Point
Cape Annie
Creek

NAME OF STREAM MARGARET CREEK

REGULATION DISTRICT 7 STATISTICAL AREA 10

LOCATION OF MOUTH Flows W. into Margaret Bay, Boswell Inlet, Kpg. 2, Coast Dist.

POSITION 51 127 SE

LENGTH 1.0 km WIDTH _____ m DRAINAGE _____ km²

OBSTRUCTION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT	
0 - 3%	
3 - 10%	
10 - 15%	
15 - 20%	
> 20%	

TOTAL AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

REMARKS (IF POINT OF DIFFICULT ASCENT _____

Impassable falls at 1.0 km.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
CHUM	
PINK	
COHO	falls
SOCKEYE	
CHUM (ODD YEAR)	
CHUM (EVEN YEAR)	
STEELHEAD	

POTENTIAL IF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

- 10⁶ -. Good spawning grounds throughout accessible portion.

ESCAPEMENT RECORD FOR MARGARET CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52		NO	RECORD PRIOR TO 1958			
53						
54						
55						
56						
57						
58			25			
59						
60						
61						
62						
63						
64						
65		NO	RECORD BETWEEN 1958 AND		1979	
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79			N/O			
80			NO RECORD			
81						
82						
83						
84						
85						
TIMING						
ARRIVE						
START						
PEAK						
END						

REMARKS

Owikeno
Lake
Rivers Inlet
Wannock
Nekite River
Kwatna River
Dallas Creek
Allard Lake
Allard Bay
Cardish Lake
Nekite River
Watson Bay
Nascall Inlet
Smokehouse Creek
Burnt Island Harbour
Smith Inlet
Triangle Island
Seymour Creek
Ramp Creek
SEYMOUR
IR 1
IR 2
IR 5
IR 16
N
Nekite River
0
10
kilometres

NAME OF STREAM NEKITE RIVER

CONSERVATION DISTRICT 7 STATISTICAL AREA 10

LOCATION OF MOUTH Flows S. into head of Smith Inlet, Rge. 2, Coast Dist.

POSITION

LENGTH 11 km WIDTH m DRAINAGE km²

CONSOLIDATION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

PERCENT GRADIENT

.00 - 0.25	
.25 - 0.50	
.50 - 0.75	
.75 - 1.00	
>1.00	

LAKE AREA m² SPAWNING AREA m²

DISCHARGE (m³/s)

TEMPERATURE (°C)

BARRIERS OR POINTS OF DIFFICULT ASCENT

Passable cascades at 4.0 km.
Impassable falls at 11.0 km.

SPAWNING DISTRIBUTION

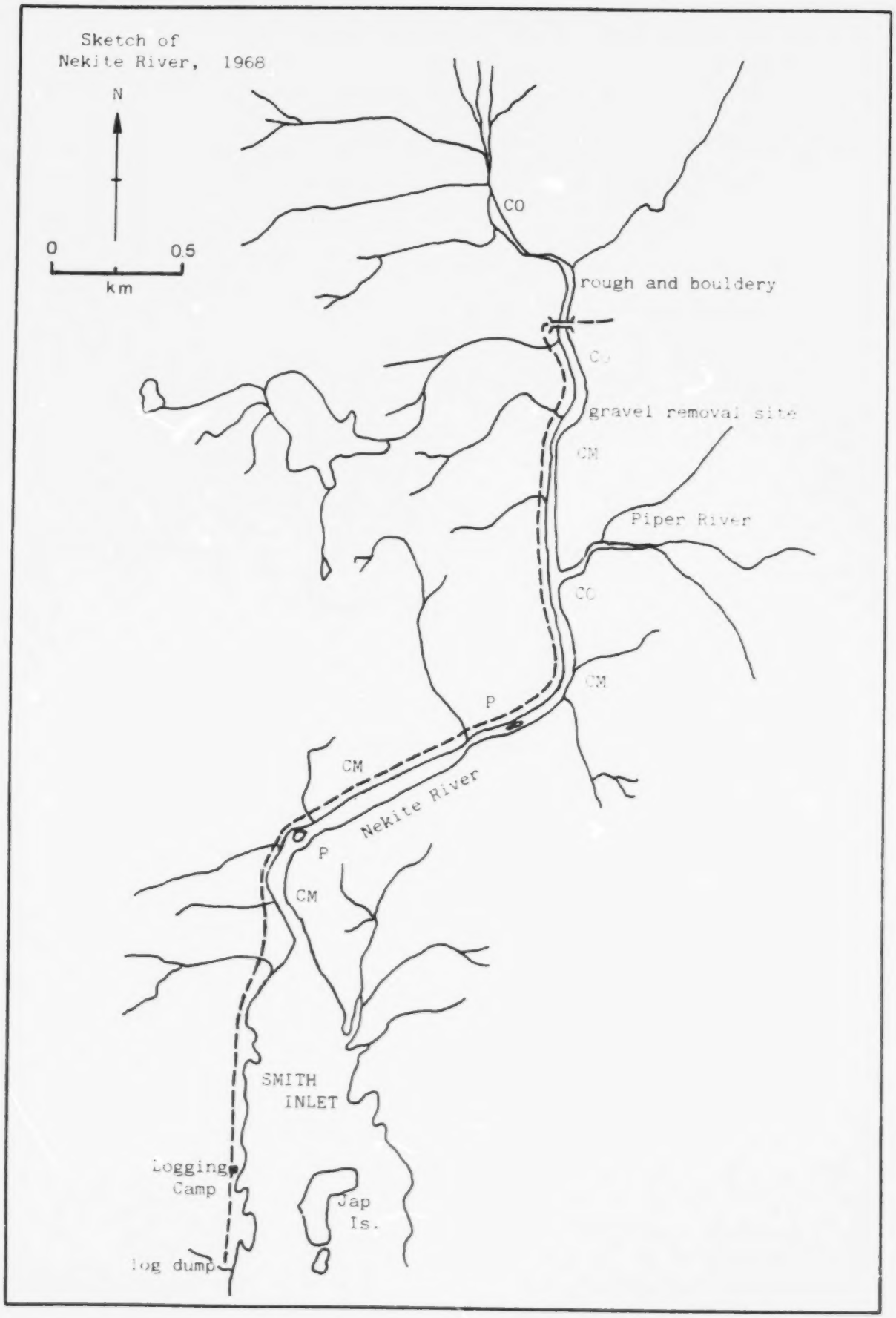
SPECIES	SECTION OF STREAM USED
SOCKEYE	
SPRINGS	
CHUM	mainly to 4.0 km
PINK (ODD YEAR)	mainly to 4.0 km
PINK (EVEN YEAR)	to 4.0 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

Spawning grounds are present above 11.0 km.

GENERAL REMARKS

- 1958. Logging operations commenced in watershed.
- 1962. Extensive scouring at end of August and throughout September.
- 1973. Logging road to 11.0 km.


Sketch of
Nekite River, 1968
N
0
0.5
km
CO
rough and bouldery
CO
gravel removal site
CM
Piper River
CO
CM
P
CM
Nekite River
P
CM
SMITH
INLET
Logging
Camp
Jap
Is.
log dump

ESCAPEMENT RECORD FOR NEKITE RIVER

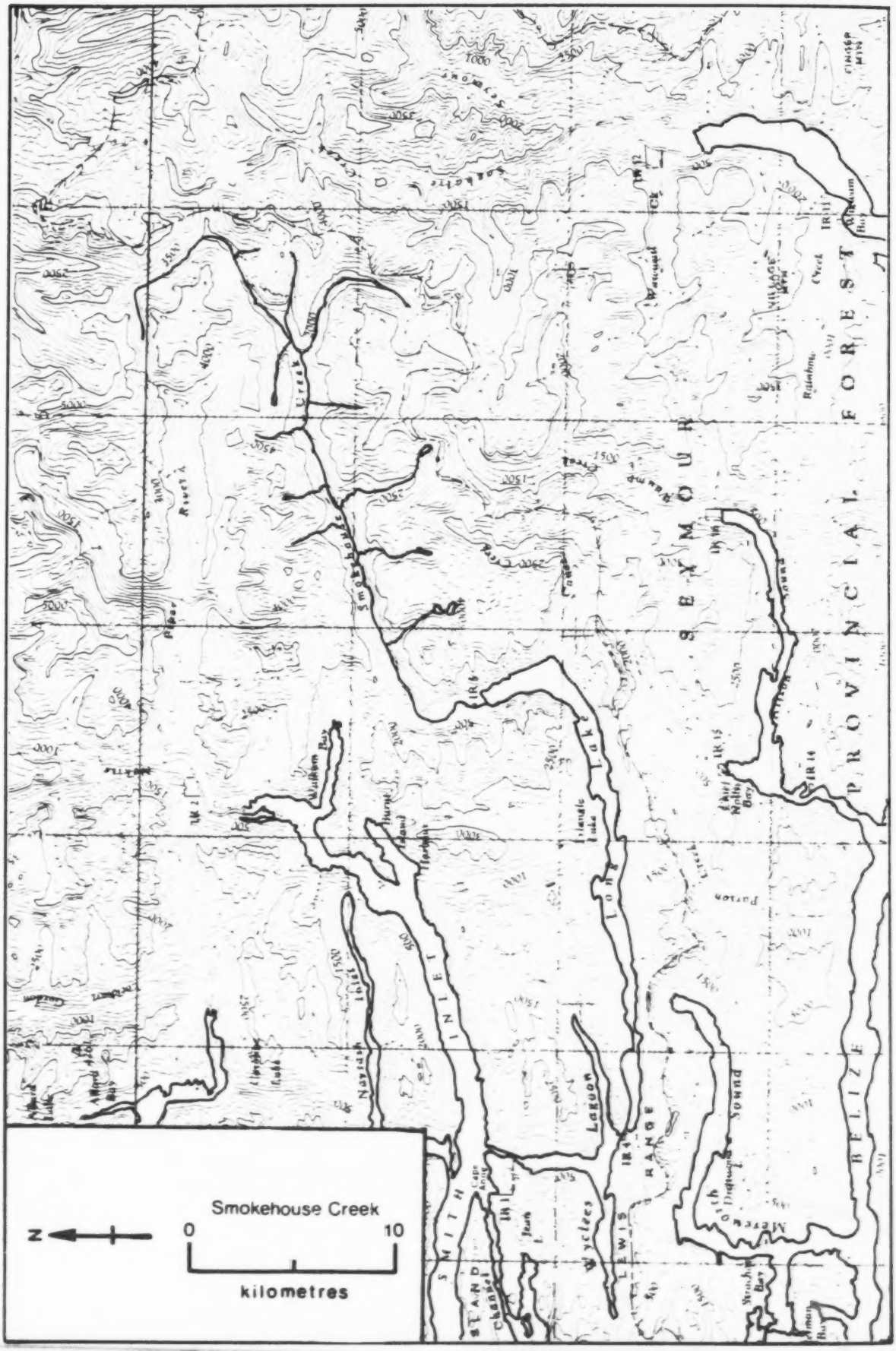
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			275	3500	11000	
48			75	1500	7500	
49			200	7500	35000	
50			500	7500	35000	
51			400	1500	3500	
52			1500	3500	35000	
53			200	7500	15000	
54			100	10000	5000	
55				400	22500	
56				1500	35000	
57			75	7500	7500	
58			200	35000	3500	
59			1500	3500	15000	
60			200	7500	3500	
61			750	3500	7500	
62			750	7500	35000	
63			400	7500	7500	
64			1500	7500	1500	
65		25	3500	1500	7500	
66		25	400	400	7500	
67		N/O	UNK	15000	3500	
68			1500	3500	15000	
69			750	1500	400	
70		N/O	200	7500	15000	
71			400	6000	4000	
72			1500	40000	2500	
73		20	400	50000	5000	
74		50	750	17500	9000	
75		60	600	5000	800	
76		N/O	N/O	7000	22000	
77		50	700	40000	20000	
78		100	400	30000	18000	
79	1000	N/O	300	3000	30000	
80	N/O	N/O	1500	50000	2000	
81						
82						
83						
84						
85						

TIMING

ARRIVE		L. JULY	SEPT	M. AUG	AUG	
START		AUG	SEPT	AUG	AUG	
PEAK		SEPT	L. OCT	L. AUG	E. SEPT	
END		OCT	DEC	E. OCT	SEPT	

REMARKS

Steelhead present in this river.


SEYMOUR
PROVINCIAL
FOREST
Smokehouse Creek
Lake
Lagoon
INLET
RANGE
SOUND
RELIZE
N
0
10
kilometres

NAME OF STREAM SMOKEHOUSE CREEK (Geluck River)

CONSERVATION DISTRICT 7 STATISTICAL AREA 10

LOCATION OF MOUTH Flows SW into head of Long L., Kge. 2, Coast Dist.

POSITION 51 127 SE

LENGTH 5 km WIDTH m DRAINAGE km²

OBSERVATION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

AVERAGE GRADIENT

0.0 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

LAKE AREA m² SPAWNING AREA m²

DISCHARGE (m³/s)

TEMPERATURE (°C)

NATURE OF POINTS OF DIFFICULT ASCENT

Impassable cascades at 5.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
CHUM	principally in the mainstem
PINK	
COHO	
SOCKEYE	
CHUM (FALL RUN)	
CHUM (SUMMER RUN)	
STEELHEAD	

GENERAL DESCRIPTION OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS

- 1978. Low flows in summer and early fall; flooding in late fall.
- 1979. Lakeshore spawning occurs in Long Lake between Smokehouse and Canoe creeks.

ESCAPEMENT RECORD FOR SMOKEHOUSE CREEK (Geluck Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	NO RECORD					
48	1500					
49	30000		400			
50	90000		400			
51	60000		UNK			
52	42500		UNK			
53	35000					
54	35000					
55	75000					
56	75000					
57	15000					
58	15000					
59	35000					
60	15000					
61	15000					
62	75000					
63	68000	UNK	UNK			
64	35000					
65	7500					
66	35000					
67	35000	UNK				
68	100000	N/O	N/O			
69	75000	N/O	N/O			
70	35000	N/O	N/O			
71	90000	N/O	N/O			
72	45000	N/O	N/O			
73	95000	N/O	N/O			
74	60000	N/O	N/O			
75	50000	N/O	N/O			
76	40000					
77	75000					
78	65000					
79	13000					
80			NOT INSPECTED			
81						
82						
83						
84						
85						

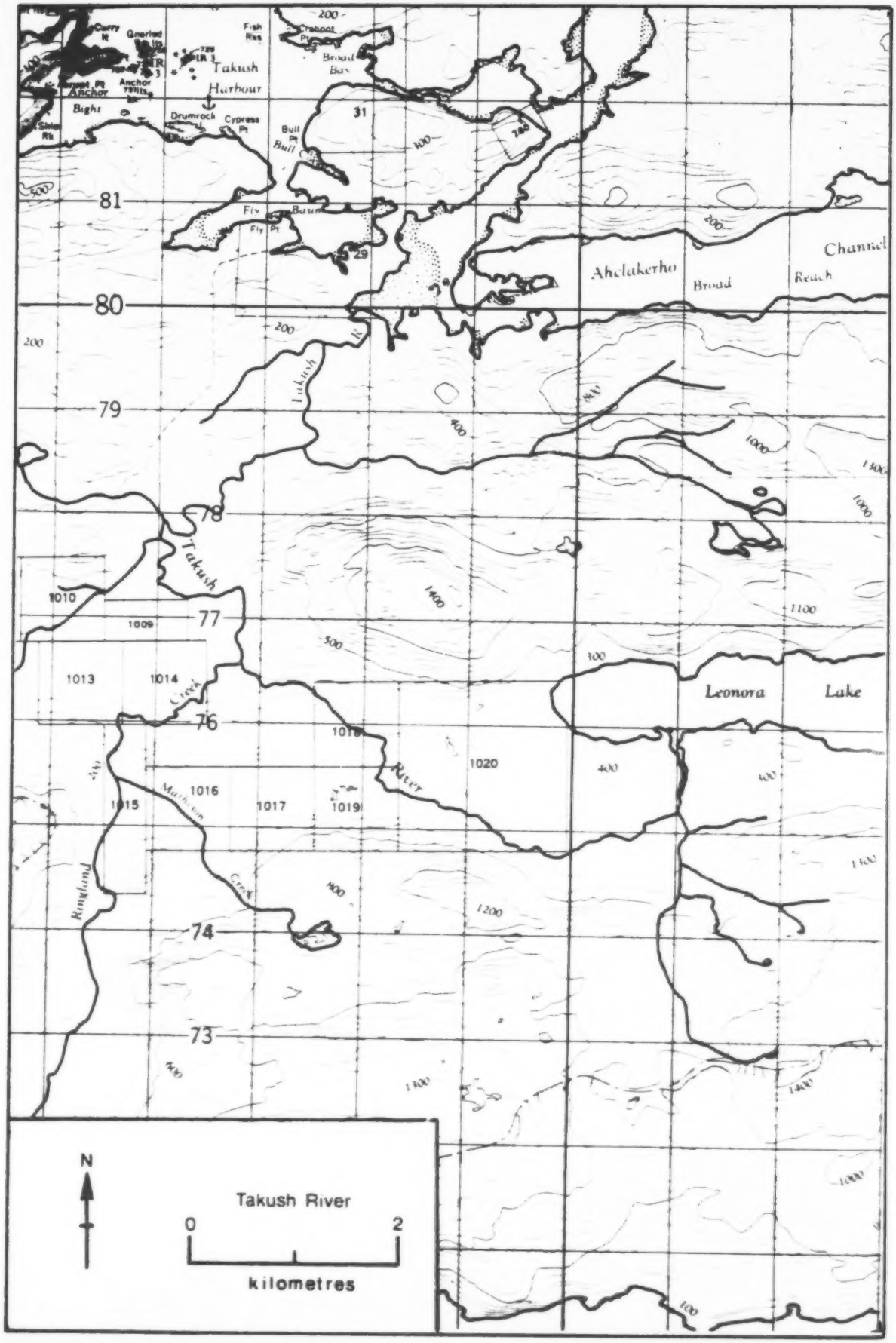
TIMING						
ARRIVE	AUG					
START	SEPT					
PEAK	E. OCT					
END	L. OCT					

REMARKS

1973. Lakeshore spawning between Smokehouse and Canoe Creeks was estimated at 2000 sockeye.

1979. Based on Docee River fence count.

1980. The Docee River fence count can be aportioned between Smokehouse and Canoe Creek: 70% and 30% respectively. Docee River fence count was 130,000 in 1980.


Takush Harbour
Bight
Anchor
Drumrock
Cypress Pt
Fly Basin
Broad Bay
Bull Pt
Bull
Ahclakerho
Broad Reach
Channel
Takush
Leonora Lake
River
Rowland
Creek
81
80
79
78
77
76
74
73
1010
1009
1013
1014
1015
1016
1017
1019
1020
N
Takush River
0
2
kilometres

NAME OF STREAM TAKUSH RIVER

VEGETATION DISTRICT 7 STATISTICAL AREA 10

MAP NO. OF MOUTH Flows N. into Ahclakerho Chan., Inlet 2, Coast Dist.

POSITION 51 127 SW

LENGTH 5.0 km WIDTH _____ m DRAINAGE _____ km²

PREDOMINATION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

POINT GRADIENT

0 - 0.4	
0.5 - 1.5	
1.6 - 1.7	
1.8 - 1.9	
> 2.0	

TOTAL AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

NUMBER OF POINTS OF DIFFICULT ASCENT _____

Falls 1m at 5.0 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
CHUM	
PINK	
SOCKEYE	from 1.5 km to falls
COHO	from 1.5 km to falls
CHINOOK (ODD YEAR)	
CHINOOK (EVEN YEAR)	
STEELHEAD	

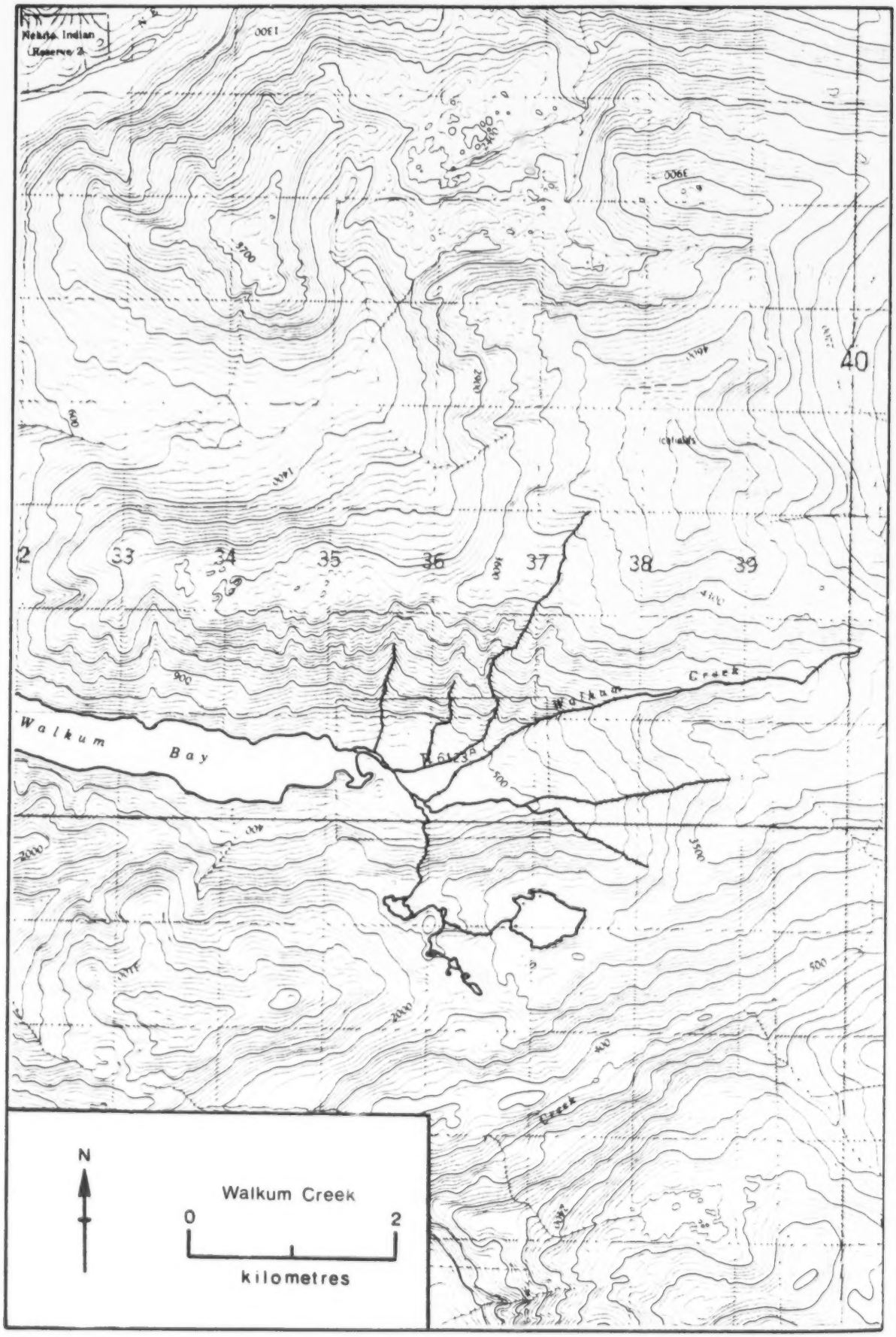
TERMINAL OF NAVIGABLE PORTION OF STREAM _____

OTHER REMARKS _____

ESCAPEMENT RECORD FOR TAKUSH RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			200	3525		
48			750	3500		
49			750	1500		
50			200	1500		
51			200	1500		
52			750	3500		
53			75	3500		
54				5000		
55				750		
56			N/O	3500		
57			400	3500		
58			1500	3500		
59			400	1500		
60			200	3500		
61			400	1500		
62			1500	35000		
63			UNK	7500		
64			UNK	7500		
65			N/O	75		
66			N/O	3500		
67			N/O	200		
68			400	7500		
69			400	750		
70			N/O	15000		
71			N/O	16000		
72			N/O	750		
73			400	12500		
74			400	3500		
75				UNK		
76			N/O	1000		
77			200	500		
78			100	3000		
79			750	10000		
80			N/O	4000		
81						
82						
83						
84						
85						
TIMING						
ARRIVE			SEPT	M. SEPT		
START			M. OCT	SEPT		
PEAK			NOV	OCT		
END			DEC	NOV		

REMARKS


Nekite Indian Reserve 2
Walkum Bay
Walkum Creek
Creek
32
33
34
35
36
37
38
39
40
N
Walkum Creek
0
2
kilometres

NAME OF STREAM WALKUM CREEK

CONSERVATION DISTRICT 7 STATISTICAL AREA 10

LOCATION OF MOUTH Flows W. into Walkum Bay, Smith Inlet, Rge. 2, Coast Dist.

POSITION 51 127 SE

LENGTH 2.5 km WIDTH _____ m DRAINAGE _____ km²

DESCRIPTION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT

.00 - 0.25	
.25 - 0.50	
.50 - 0.75	
.75 - 1.00	
> 1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Impassable falls at 2.5 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	throughout
CHUM	throughout
PINK (ODD YEAR)	throughout
PINK (EVEN YEAR)	throughout
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

- 1967. Flooding and channel shift in mid-November destroyed 90% of the spawn. Frequent flash floods and scouring.
- 1974. Logging operations conducted at mouth of stream.

ESCAPEMENT RECORD FOR WALKUM CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			NO	RECORD		
48				7500	400	
49				7500		
50			400	7500		
51			400	3500		
52			400	7500		
53			75	7500		
54			N/O	5000	1000	
55				3500	N/O	
56				9000	25	
57			200	1500	N/O	
58			200	1500		
59			25	7500		
60			75	1500		
61			25	750		
62			400	1500		
63			200	750		
64			75	400		
65			N/O	25		
66			N/O	25		
67			25	25		
68			25	75	25	
69			200	400	N/O	
70			200	UNK	N/O	
71			600	3000	N/O	
72			100	2500	25	
73			300	9000	30	
74			700	7500	UNK	
75			200	2500	500	
76			UNK	500	100	
77			300	2000	100	
78			300	3000	1000	
79	25		100	750	250	
80			N/O	3000	500	
81						
82						
83						
84						
85						
TIMING						
ARRIVE			OCT	SEPT	SEPT	
START			E. OCT	SEPT	SEPT	
PEAK			E. NOV	M. SEPT	SEPT	
END			NOV	OCT	OCT	

REMARKS

METRIC EQUIVALENTS

Length

centimeter (cm)	=	0.394 in
meter (m)	=	3.280 ft
meter (m)	=	1.094 yd
kilometer (km)	=	0.621 mi
inch (in)	=	2.540 cm
foot (ft)	=	0.305 m
yard (yd)	=	0.914 m
mile (mi)	=	1.609 km

Area

square centimeter (in^2)	=	0.155 in^2
square meter (m^2)	=	10.760 ft^2
square meter (m^2)	=	1.196 yd^2
square kilometer (km^2)	=	0.386 mi^2
hectare (ha)	=	2.470 a
square inch (in^2)	=	6.451 cm^2
square foot (ft^2)	=	0.093 m^2
square yard (yd^2)	=	0.836 m^2
square mile (mi^2)	=	2.590 km^2
acre (a)	=	0.405 ha

Volume

cubic centimeter (cm^3)	=	0.061 in^3
liter (L)	=	61.023 in^3
liter (L)	=	0.035 ft^3
liter (L)	=	0.264 U.S. gal
	=	0.220 Imp. gal
cubic meter (m^3)	=	35.315 ft^3
cubic meter (m^3)	=	1.308 yd^3
cubic inch (in^3)	=	16.387 cm^3
cubic inch (in^3)	=	0.016 L
cubic foot (ft^3)	=	0.028 m^3
cubic foot (ft^3)	=	28.320 L
cubic yard (yd^3)	=	0.765 m^3
U.S. gallon (gal)	=	3.785 L
Imp. gallon (gal)	=	4.546 L

Weight

gram (gm)	=	0.035 oz
kilogram (kg)	=	2.205 lb
kilogram (kg)	=	0.001 ton (short)
tonne (t)	=	1.103 ton (short)
ounce (oz)	=	31.103 gm
pound (lb)	=	0.373 kg
ton (short)	=	907.180 kg
ton (short)	=	0.907 t

Velocity

meter per second (m/s)	=	3.280 ft/s
feet per second (ft/s)	=	0.305 m/s

Discharge

cubic meter per second (m^3/s)	=	35.315 ft^3/s
cubic foot per second (ft^3/s)	=	0.028 m^3/s
cubic meter per second (m^3/s)	=	15350.879 U.S. gal/min
	=	13198.628 Imp. gal/min

Temperature

Degrees Centigrade (^oC) = 5/9 (Degrees Fahrenheit - 32)
Degrees Fahrenheit (^oF) = 9/5 (Degrees Centigrade) + 32